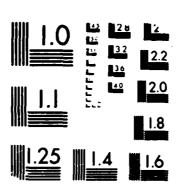
MO-M193 896 A SURVEY OF PHYSICIANS ASSIGNED TO MADIGAM ARMY MEDICAL CENTER TO DETERMI...(U) ACADEMY OF HEALTH SCIENCES (ARMY) FORT SAM HOUSTON TX HEALTH C... H H LAMBERT APR 81 HCSD-3-88 F/G 5/9 1/2 UNCLASSIFIED



MICROCOPY RESOLUTION TEST CHART

dee wasaasa ssaasaa ahhhhaa assaasinkussaaan

KULKUUS KKSIKKS "BEELEVANI, KUUUKSSA, KKEEKSA, KEE

BTTC FILE COPY



A SURVEY OF PHYSICIANS ASSIGNED TO MADIGAN ARMY MEDICAL CENTER TO DETERMINE PERCEPTIONS OF THE ROLE OF THE PROFESSIONAL NURSE:

DO THE PERCEPTIONS SUBSTANTIATE DOCUMENTED ELEMENTS CONTRIBUTING TO THE NURSING SHORTAGE?

A Problem Solving Project
Submitted to the Faculty of
Baylor University
In Partial Fulfillment of the
Requirements for the Degree
of

Master of Hospital Administration



Ву

Major Mary H. Lambert, ANC

April 1981

DESTRIBUTION STATEMENT A

Approved for public releases
Distribution Unlimited

88 6 1 007

	DOCUMENTATIO	N PAGE	A1938	96	Form Approved OMB No. 0704-0188
1a. REPORT SECURITY CLASSIFICATION		16. RESTRICTIVE		• /	<u> </u>
Unclassified 2a. SECURITY CLASSIFICATION AUTHORITY		3 DISTRIBUTION	N/AVAILABILITY (OF REPORT	
2b. DECLASSIFICATION / DOWNGRADING SCHEDU	u c	Approved	for release; on Unlimited		
		Distributi			
4. PERFORMING ORGANIZATION REPORT NUMBE	R(S)	5. MONITORING	ORGANIZATION I	REPORT NU	JMBER(S)
3-88					
6a. NAME OF PERFORMING ORGANIZATION U.S. Army-Baylor University Grad	6b. OFFICE SYMBOL (If applicable)	7a. NAME OF M	ONITORING ORGA	ANIZATION	1
Program in Health Care Admin	HSHA-IHC	_			
6c. ADDRESS (City, State, and ZIP Code)		7b. ADDRESS (C	ty, State, and ZIP	Code)	
Ft Sam Houston, TX 78234-6100					
8a. NAME OF FUNDING/SPONSORING ORGANIZATION	8b. OFFICE SYMBOL (If applicable)	9. PROCUREMEN	T INSTRUMENT IC	ENTIFICAT	ION NUMBER
Bc. ADDRESS (City, State, and ZIP Code)	<u> </u>	10. SOURCE OF	FUNDING NUMBE	RS	
		PROGRAM ELEMENT NO.	PROJECT NO.	TASK NO.	WORK UNIT ACCESSION NO
11. TITLE (Include Security Classification)					
COSATI CODES	L 40 CHOISET TERRES (1 : 4	
7. COSATI CODES FIELD GROUP SUB-GROUP	18. SUBJECT TERMS (Continue on revers	se if necessary an	d identify	by block number)
	18. SUBJECT TERMS (-	_	
FIELD GROUP SUB-GROUP 19. ABSTRACT (Continue on reverse if necessary The study examined the physician'	Health Care Pe	erceptions of umber)	the Profession	onal Nui	rse Shortage at possible causes
FIELD GROUP SUB-GROUP	Health Care Permand identify by block in sperception of the Through a literate in and the nurse in the study care for a registered reclinical decision and an orientation	erceptions of umber) the professional ure review andicate that in the professional urse and that on the professional urse and that on the physical urse and the physical urse and the physical urse and the physical urse urse under the physical urse urse urse urse urse urse urse urse	the Professional nurse role nurses percei physicians route the percept ocess. The s	and who n questi ve an u ecognize ions of tudy sug	at possible causes ionnaire, critical nderutilizationn inherent a nurse is as a aggests a better
The study examined the physician' could lead to a nursing shortage. relationships between the physicia and a lack of job prestige or respedifferences in licensure programs "handmaiden" and not as part of the definition of nursing capabilities of the substitution of sursing capabilities and substitution of sursing capabilities of substitution of sursing capabilities and substitution of sursing substitution of su	Health Care Person of the Care of the Care of the Study of the Care of the Car	erceptions of umber) the professional ure review andicate that includes that butse and that pontmaking professional profes	the Professional nurse role a physician representation of the percept ocess. The sician and the	and whom and whom and whom and whom and whom and	at possible causes ionnaire, critical nderutilizationn inherent a nurse is as a ggests a better in how the nurse's
FIELD GROUP SUB-GROUP 19. ABSTRACT (Continue on reverse if necessary The study examined the physician could lead to a nursing shortage. relationships between the physicia and a lack of job prestige or respectifierences in licensure programs "handmaiden" and not as part of the definition of nursing capabilities of contributions can assist the physical contributions can assist the physical contribution.	Health Care Person of the Care of the Care of the Study of the Care of the Car	erceptions of water) the professional ure review and that it is and that it is and that it is an arranged for the physical and the physical arranged for the physical arranged	the Profession of nurse role nurses percei physicians retained the percept ocess. The sician and the CURITY CLASSIFIC CURITY	and whom and whom questive an unecognized ions of tudy sugar nursed in t	at possible causes ionnaire, critical nderutilizationn inherent a nurse is as a ggests a better in how the nurse's

If Nursing is to discharge its responsibility to society, the nature of nursing and its proper goals must be clearly understood. Sound education for nursing practice depends on clear definition of nursing practice, as does good licensing legislation. The status of nursing directly influences the quality and quantity of nursing care that is available to society.

Author, Unknown

ACKNOWLEDGEMENTS

I would like to dedicate the efforts expended during this research endeavor to Carshal A. Burris, Jr., Colonel, MSC. His pervading influence throughout my Health Care Administration Residency was enlightening, thought provoking and continually instilled in me the desire to strive for the optimal educational experience and product.

In producing this paper I am grateful to Brigadier General Guthrie L. Turner, Jr., Commanding General of Madigan Army Medical Center, for support and endorsement of the project; to all the military physicians who participated in the survey for their comments and contributions to my educational process, which made this research effort possible; and to SFC D. Espinoza, NCOIC of the Learning Resource Laboratory at the Academy of Health Sciences, Fort Sam Houston, Texas, who selflessly devoted his time and expertise to provide the computer capability utilized in the analysis of this research study. Special recognition is given to Mrs. Elizabeth Pugsley for outstanding typing and editorial assistance, without which this paper would have proven to be significantly more arduous.



Acce	ssion For	,
NTIS	GRA&I	
DTIC	TAB 🖂	
Unan	nounced 🔲	
Just	ification	
		
Ву		
	ribution/	
Ava	lability Codes	1
	Avail and/or	
Dist	Special	
Λ	1 1	•
V	1 1	
r	1 1 '	
	1 1	

TABLE OF CONTENTS

ACKNOWL	EDGEMENTS	iii
LIST OF	TABLES	٧
LIST OF	ILLUSTRATIONS	х
Chapter I.	INTRODUCTION	1
	The Exodus From Nursing	1
	Shortage	4 9 9
	Review of the Literature	10 14
II.	DISCUSSION	19
	Characteristics of Respondents	19
	Potential	22 33
	Selected Statements	60 76
III.	CONCLUSION	89
FOOTNOT	ES	96
APPENDI A.	X DEFINITION OF TERMS	98
В.	DATA COLLECTION TOOL	100
С.	DATA COMPILATION CODES	109
D.	STATISTICAL TESTS ON SURVEY RESULTS	112
Ε.	SURVEY DISTRIBUTION AND RESPONSE BY SPECIALTY	167
F.	PHYSICIAN COMMENTS	169
SELECTE	D. RTRI TOGRAPHY	172

LIST OF TABLES

	Gradian Colorada	ኯዀኯዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀዀ	
88			
<u> </u>			
TEA.			
8			
8			
88			
W		LIST OF TABLES	
18 6			
	Table		Page
	1.	Characteristics of Respondents: Staff	
S		Versus Residents and Interns	. 20
		rerada neardenta una inscrita	. 20
	2.	Percentage of Responses, by Physician	
		Position, to the Statement: The Course	
		of Studies Varies With Different Levels	00
		of Educational Programs for Nursing	. 22
	3.	Percentage of Responses, by Physician	
তুহ	J.	Position, to the Statement: Nurses	
		Graduated From Baccalaureate Programs	
		in Nursing Are Better Prepared to Make	
N		Clinical Assessments of a Patient's	
D.		Status	. 23
N	4.	Percentage of Responses, by Physician	
	7.	Position, to the Statement: The Degree	
(2)		of Responsibility A Nurse Assumes Should	
\otimes		be Directly Proportionate to His/Her	
		Academic Preparation	. 24
67.		Demonstrate of December by Dhysisian	
	5.	Percentage of Responses, by Physician Position, to the Statement: An Individual	
		With a Baccalaureate Degree in Nursing is	
		Trained to Function as Proficiently in the	
XX		Clinical Arena as in Management Positions	. 25
₹N	_		
	6.	Percentage of Responses, by Physician	
		Position, to the Statement: Recommendations From Nurses, with Respect to a Patient's	
		Treatment Regime, Should be Solicited and	
155		Considered by the Physician	. 26
lve:			
	7.	Percentage of Responses, by Physician	
		Position, to the Statement: During Their	
(Educational Process Nurses are Taught to Integrate Knowledge of Pathophysiology With	
		Actual Assessments and Courses of Action in	
D Ref is		the Patient Care Setting	. 26
R.			
•			
86 0			
		V	
XX			
100			
5 '			
POW *			

「able		Page
8.	Percentage of Responses, by Physician Position, to the Statement: Nurses are not Merely Technicians but Rather They Must Effectively Combine Technical Capabilities With Theoretical Knowledge in Order to Perform Efficiently	28
9.	Percentage of Responses, by Physician Position, to the Statement: It is Appropriate for a Nurse to Question a Physician's Choice of Treatment Modalities in Cases Where the Nurse Believes the Treatment May be Detri- mental to the Patient	29
10.	Percentage of Responses, by Physician Position, to the Statement: The Educational Process for Nurses has Increased with Respect to Depth, Scope and Complexity of Academic Preparation. The New Nurse is More Appropriately Considered as a Colleague Rather than Handmaiden to the Physician	30
11.	Percentage of Responses, by Physician Position, to the Statement: Nurses, by Virtue of their Education, are Competent to Make Clinical Assessments and Pursue Appropriate Courses of Action in Patient Care	31
12.	Percentage of Respondents Indicating the Professional Nurse is Prepared to Make Independent Clinical Assessments of a Patient's Status	34
13.	Percentage of Responses Indicating Physicians' Perceptions of Baccalaureate Nurses' Preparation to Take Independent Actions in Emergencies	36
14.	Percentage of Responses Indicating Whether Physicians Agree/Disagree that the Observations and Suggestions of Professional Nurses	37

ESPECIO MONOS ESPECIOS PONOS PONOS ESPECIAS ESPECIAS PRODUCAS ESPECIAS PONOS ESPECIAS ESPECIA

Table		Page
15.	Percentage of Respondents Who Agree/ Disagree That Professional Nurses are Academically Prepared to Assume Progressively More Responsible Positions	. 38
16.	Percentage of Respondents Who Agree/Disagree That the Chief Nurse Should be a Member of the Executive Committee	. 39
17.	Percentage of Respondents Who Agree That the Physicians' Working Relationship With Nurses is a Critical Factor in Patient Care	. 40
18.	Percentage of Respondents Who Agree/Disagree Nurses Should be Considered Equal Partners on the Patient Care Team	. 41
19.	Percentage of Respondents Who Agree/Disagree That Nurses Have Not Achieved the Professional Recognition They Deserve	. 42
20.	Percentage of Respondents Who Agree/Disagree That a Great Deal of Professional Dependence is Permitted of the Nurses With Whom They Work	. 43
21.	Percentage of Respondents Who Agree/Disagree That the Professional Independence Permitted is Appropriate	. 44
22.	Percentage of Respondents Who Agree/Disagree That Personnel Frequently Mingle With Others of Different Professions	. 45
23.	Percentage of Respondents Who Agree/Disagree That the Expertise of Nurses Allows Delivery of Better Patient Care	. 46
24.	Percentage of Respondents Who Agree/Disagree That Nurses Don't Hesitate to Help in Critical/Rushed Situations	. 47
25.	Percentage of Respondents Who Agree/Disagree That The Pay and Status of Professional Nurses is Reasonable	. 48

viii

Table							Page
26.	Percentage of Respondents Who Agree/Disagree That There is a Good Deal of Teamwork and Cooperation Between Physicians and Nurses	•	•		•		49
27.	Percentage of Respondents Who Agree/Disagree That Nurses Should Participate in the Administrative Decision-Making Process	•		•		•	50
28.	Percentage of Respondents Who Agree/Disagree That Nurses Should Participate in the Clinical Decision-Making Process		•		•		51
29.	Percentage of Respondents Who Agree/Disagree That Physicians Understand and Appreciate What the Nursing Staff Does		•	•			52
30.	Percentage of Respondents Who Agree/Disagree That Nurses Should Have the Freedom to Make Decisions and be Able to Count on the Physician to Back Them Up	•	•	•	•	•	53
31.	Percentage of Respondents Who Agree/Disagree That it is Appropriate to Elevate the Position of Chief, Department of Nursing to an Associate Administrator Level	•	•	•	•		54
32.	Comparison of Frequency of Responses to Statements One and Three in Part Two	•		•			60
33.	Comparison of Frequency of Responses to Statements Six and Seven in Part Two	•	•	•		•	61
34.	Comparison of Frequency of Responses to Statements Five and Eight in Part Two	•		•	•	•	62
35.	Comparison of Frequency of Responses to Statements Three and Six in Part Three	•		•	•	•	63
36.	Comparison of Frequency of Responses to Statement Five in Part Two and						64

「able		Page
37.	Comparison of Frequency of Responses to Statement Eight in Part Two and Statement Three in Part Three	65
38.	Statement Five in Part Two and	66
39.	Statement Four in Part Two and	67
40.	Comparison of Frequency of Responses to Statements Five and Twenty in Part Three	68
41.	Comparison of Frequency of Responses to Statements Six and Twelve in Part Three	69
42.	Comparison of Frequency of Responses to Statements Eight and Eighteen in Part Three	7 0
43.	Comparison of Frequency of Responses to Statements Eight and Fourteen in Part Three	71
44.	Comparison of Frequency of Responses to Statements Eight and Ten in Part Three	72
45.	Comparison of Frequency of Responses to Statements Nine and Ten in Part Three	73
46.	Comparison of Frequency of Responses to Statements Twelve and Thirteen in Part Three	74
47.	Comparison of Frequency of Responses to Statement Thirteen in Part Three and Statement Nine in Part Two	75

LIST OF ILLUSTRATIONS

Figure			Page
1.	Frequency Distribution of by Specialty	Respondents	21
2.	Frequency Distribution of Specialty, to Statement	Responses, by Eight in Part Two	7 9
3.	Frequency Distribution of Specialty, to Statement	Responses, by One in Part Three	80
4.	Frequency Distribution of Specialty, to Statement	Responses, by Six in Part Three	81
5.	Frequency Distribution of Specialty, to Statement	Responses, by Ten in Part Three	82
6.	Frequency Distribution of Specialty, to Statement	Responses, by Fifteen in Part Three	84
7.	Frequency Distribution of Specialty, to Statement	Responses, by Seventeen in Part Three	85
8.	Frequency Distribution of Specialty, to Statement	Responses, by Eighteen in Part Three	86
9.	Frequency Distribution of Specialty, to Statement	Responses, by Nineteen in Part Three	87

CHAPTER I

INTRODUCTION

The Exodus From Nursing

Amidst the myriad of extrinsic and intrinsic factors which have contributed to the increasing complexities of adequate health care delivery is the emergence of yet another critical issue. If recruitment activities and newspaper advertisements are believable indicators, the health care industry finds itself today in the midst of an acute shortage of nurses. This is perhaps the most alarming scarcity situation since the 1940's. Health care literature and other periodicals currently are replete with discussions of the nursing shortage. Published articles and studies address the issue from a multitude of diverse perspectives: Why do nurses leave the profession?; the importance of nurses' salaries; what measures may stem the turnover rates?; nurses' changing needs; fact sheets about nurses; educational trends in nursing; and research on the profile of the "all-American nurse," ad infinitum. Indeed, statistical surveys of health care facilities nationwide have validated the gravity of the shortage, spawning a proliferation of proposals, research and opinions which have flooded not only health care journals but also newspapers, "talk" shows, television news specials and virtually every other aspect of the news media.

While the issue is discussed and Jebates rage on, health care facilities have responded to the crisis engendered by the nursing shortage in a variety of ways. Their answers have been dependent upon, among other things, the availability of funds, administrative attitudes and perceptions, as well as the institution's particular urgency to fill vacant registered nurse positions. However, primary attempts at resolution of the problem would appear to be a visceral response. directed at short term alleviance of the staffing shortages. Personnel pools and recruitment agencies have availed themselves to this avenue of resolution and have emerged as flourishing enterprises in virtually every city in the country.² Although these supplemental staffing agencies answer certain needs of both the hospital and the nurse, many claim that continued reliance on agency personnel could be detrimental to the players as well as to patient care and staff ${\sf morale.}^3$ Subsequently, the industry has been inundated by yet another frenzy of controversy surrounding this popular antitode to the shortage crisis.

For perhaps the first time in its history, the profession of nursing has garnered/demanded the interest and concern of other health care professionals on a national level. The practice of nursing has experienced profound expansion of its scope and methodology. The forces of technological advancement and impact have not only created, but also have demanded new dimensions in nursing practice. In a

fine effort to meet this challenge the nursing profession has sought higher educational standards, programs of quality assurance and proper utilization of the practitioners of nursing. Training has become much more rigorous and costly to the individual pursuing a nursing career. Higher educational standards are evidenced by more stringent admission requirements and grueling academic criterion. Professional nurses today have endured monetary, physical and emotional hardships to gain entrance into the profession. However, it is apparent that considerable confusion reigns with regard to academic preparation and subsequent utilization of nurses graduated from baccalaureate levels and higher. Ironically, despite efforts by factions of the profession to elevate the status of nursing and to enhance academic preparation, other members of the profession advise nurses to place minimal emphasis on their educational backgrounds and personal innovativeness when seeking job positions. Employers have indicated that they are not at all interested in, or place little priority on, these attributes. In essence, the era of the nursing shortage would appear to coincide with a period in nursing's history that is witness to a tremendous evolutionary process within the nursing arena. It may be quite reasonable to question the potential of a causal relationship between the nursing shortage and the socialization process of today's nurse during his/her academic training. Past research would indicate that a

massive gap exists between the expectations of the student nurse and the stark reality encountered in the actual work environs.⁵

The controversy, discussion and research surrounding the issue continues to generate formidable amounts of data and, at the same time, health care institutions proceed to address the problem with topical solutions. There is an apparent reticence, on the part of physicians and administrators, to grapple with the sources of disillusionment which numerous research studies have brought to light. This hesitancy may, to some extent, be a function of the vague assertions of the research or indeed may be a denial of the reasons nurses claim for leaving the profession. In the final analysis, the gravity of the situation cannot be overstated. The facts are: a patient population which continues to rise, 5% in 1978; a 16% decrease in nursing school applications between 1977 and 1978; and a projected shortage of 100,000 nurses nationwide by 1982.

Addressing the "Why" of the Nursing Shortage

Voluminous reports consistently cite several key factors as the primary grounds for registered nurse turnover rates in hospitals and withdrawal rates from nursing practice. Charges of responsibility for the 70% turnover and 50% withdrawal have been levelled primarily at Nurse Administrators, who are accused of ignoring management principles in their efforts to stem the flood of nurses resigning their practice. At the same time, a majority of articles elect to

concentrate emphasis on inadequate salaries as a principal reason for the exodus. The dichotomy in these two assertions rests in the fact that, if indeed both are valid, the Nurse Administrator, in most cases, may only provide the input to the decision making process which rests primarily with a hospital administrator or physician director. The issue of salary compensation as the most significant reason for nurse attrition is, at best, debatable. Public school teachers are a notoriously underpaid group and yet their turnover rate is only 20% as compared to the 70% turnover rate for nurses.8 Consistently, studies show that job performance and quality of patient care are higher priorities for nurses than the size of their paychecks. Nurses report that they are frustrated, shown little respect and, among other things, that they are underutilized and overworked. 9 Nurses are educated to make life and death decisions, yet are paid only half as well as supermarket checking clerks. American Hospital Association figures showed that the average salary of staff nurses in December 1978 was six dollars an hour as compared to grocery clerks, who averaged over eleven dollars an hour. 10 It is proposed that salaries are most certainly an issue but, based upon nurses' responses to multiple surveys, salary is not the number one cause for the current shortage. In actuality, low salaries may merely be a reflection of the real problem source: the professional status

and prestige which the registered nurse holds among other health care professionals.

In the process of addressing the causal agents driving the phenomenon of the nursing shortage, authors tend to dwell on those areas in which administration can most efficiently effect changes. Most commonly pursued areas for improvement, in addition to salary, are refresher courses, flexible scheduling and day care centers. In fact, there has been little demonstrated success with the implementation of these measures. That the measures lend themselves to management intervention is of little consolation for the current crisis shows no indication of diminishing in the near future.

It would appear that if the attrition of nurses from the profession is to be at least arrested and, hopefully, an influx nurtured, health care professionals must begin to address the sensitive issues which will not be so easily resolved. Nursing is a troubled profession presently in a state of evolution, marked by turmoil amongst the ranks of its members. One reason is that it has not achieved the status of other professions. There are strong philosophical cross-currents among its members: one group of nurses wants to be relieved from menial nursing tasks while other nurses want to be assigned all aspects of primary nursing care. It of continuing concern is the evolution, status and role of nursing.

National polls of nurses consistently surface two factors which nurses claim feed their disillusionment and nurture tendencies to leave the profession: low prestige and lack of respect for their capabilities and contributions. A review of the literature substantiates that these claims are made; however, with the exception of a few random articles, the arena has received only fleeting attention. The key players impacting on these perceptions are the nurse, the administrator and the physician. The nurse has been surveyed, polled, studied and scrutinized in attempts to discern attitudes, perceptions and ultimate causes for the nursing shortage. Little, if any, attention has been directed to the latter groups, physicians and administrators, to determine if their attitudes and perceptions are accountable for or support the nurses' claims of job frustration and lack of respect. Undeniably, this is a sensitive subject for discussion and may account for the apparent lack of research pursued amongst these particular groups. At the same time, consideration must be given to substantial control and influence physicians and administrators wield over the nurse in the work environment. Their expectations and attitudinal tendencies will necessarily, by virtue of roles and responsibilities, have considerable impact on the nurses' perceived subjugation. As previously stated, random journal articles address doctor-nurse relationships, however, research does not begin to approach the volume of studies directed at nurses as separate entities.

Increased professionalism as a result of better education can cause unrealized expectations and conflicts that lead to turnover.

Nurses report that they are developing a new awareness of themselves and of their value to society. This new awareness has affected nurses' thinking with regard to the role of "hand maiden," which traditionally has been required of them. Feelings of being in conflict with physicians or administrators and of being helpless to effect change, to expand roles or to have long-range career opportunities, are some of the factors that force nurses to leave jobs, they say. Nurses are less willing to tolerate, on a full-time basis, having what they feel is a traditionally ineffective voice in making decisions that affect patient care. In particular, baccalaureate nurses provide a source of new ideas and professionalism that hospitals need. However, more baccalaureate nurses mean fewer nurses who are willing to work in hospitals under present conditions.

The question which must now be asked is: What exactly are physicians' attitudes and perceptions of the role of the professional nurse? The role of the professional nurse is the primary target here because it is the baccalaureate program of education which is the recipient of sanctions by national professional nursing organizations as the prerequisite for entrance into the practice of professional nursing. At the same time, baccalaureate nurses change jobs at three times the rate of associate degree nurses. ¹³ The physician population is the

chosen target group primarily because of their professional intimacy with the nursing profession and, further, by reason of the leverage they wield over the nurses' environs.

Are physician perceptions of the role of the professional nurse factors to be considered in validating nurses' primary reasons for disillusionment and retreat from their profession?

Statement of the Problem

The objective of this research will be to identify patterns in physician perceptions of the role of the professional nurse. Recent studies of nurses' intentions to leave an organization or the nursing profession consistently rank lack of job status/prestige as a primary cause. ¹⁴ This lack of status/prestige may or may not be valid in terms of the nurse/physician professional relationship.

The hypothesis is: physician perceptions of the role of the professional nurse reinforce the validity of nurses' claims that they are underutilized and that they lack respect and prestige.

Limitations and Assumptions

The limitations of this research project are:

- The scope of this research is limited to physicians assigned to Madigan Army Medical Center.
- This research addresses only the perceptions of military physicians.

3. This research does not address the scope of practice and perceived abilities of clinical nurse practitioners functioning in highly specialized, technical areas.

The assumptions of this research project are:

- There is a direct relationship between nurses' perceptions of job status/prestige and utilization and professional relationships with physicians, the latter having tremendous impact on the former.
- Perceptions of the physician population at Madigan
 Army Medical Center is representative of the per ceptions of physician populations at other Army
 medical treatment facilities.
- Physicians will respond with candor and on a timely basis to the questionnaire.

Review of the Literature

The nursing shortage has spawned numerous studies by behavioral scientists and nursing researchers to determine the causal factors impacting on staffing shortages. Previous references in this introduction bear witness to this fact. In particular, measurement of job satisfaction in relation to job performance among nurses has been the theme of innumerable studies. However, some researchers have noted that precise definitions and methods of measuring job satisfaction are

lacking in medical settings. Ensuing scales that measured relative importance of various components were then developed. The intent of job satisfaction studies has changed greatly since the early experiments of Frank Taylor, who assumed that job satisfaction was related completely to the amount of money earned. It is, however, interesting to note that it is this presumably evident symptom of the nursing shortage, that of inadequate salaries, to which the hospital industry has applied a topical salve. It would appear, even to the casual observer, that the problem generating the nurse shortage may indeed be more evasive than poor salaries alone. An experiment in 1945, conducted by Elton Mayo, concluded that the most important determination of job satisfaction was group interaction: morale increased with a change in conditions. 16

Other humanistic psychologists, e.g., Maslow and Herzberg, utilized a hierarchy of human need: in determining elements of job satisfaction attainment. Maslow's need hierarchy has been criticized as representing the exclusive value system of the upwardly mobile society members. Herzberg has been similarly criticized for presenting a division of needs which cannot be applied to all job situations. However, the value of these theories cannot be entirely negated for they have included a comprehensiveness of needs and further, they have suggested that to motivate a worker successfully, rewards must be linked to needs which are most desirable and least attainable.

A significant weakness of job satisfaction studies is that they have failed to pinpoint needs which would predict satisfaction in all jobs, and as a result, a tremendous amount of empirical data has been generated, little of which can be generalized to improve theories.

Often job satisfaction studies have focused on those areas which are easiest to change by management and easiest to measure, such as physical conditions, hours, wages and fringe benefits. Have not these surveys missed basic areas of satisfaction in failing to measure all of the needs in Maslow's hierarchy?

Within the health field, nurses have been studied with more frequency than any other group. The job satisfaction studies of this group have considered satisfaction in relation to turnover rate, unionization and the theories of Herzberg and Maslow to determine if they applied to this group of professionals. Personality studies have also been conducted to determine what type of person is attracted to nursing as a profession. Several components of job satisfaction in the nursing profession have surfaced repeatedly in numerous studies. Among these are pay, autonomy, task requirements and job prestige or status. Of these, job status/prestige has been an integral component in virtually every study reviewed in this research effort.

The practical rationale for examining job satisfaction remains based upon the assumption that a satisfied worker will in fact produce more. Although the health field is not devoid of job satisfaction

research, most has concerned hospital employed nurses and has had a productivity related emphasis. Several studies have addressed turnover rates and correlations between personality and composition of jobs. These studies have provided intriguing insights into some of the motivations of this specific group of health care providers. However, with the advent of the ever-expanding shortage of working nurses, these studies provide minimal insight into the root of the problems which are generating an exodus of nurses from the profession.

It is suggested that the evolvement of nursing into a demanding and specialized profession, coupled with the need for nurses to achieve job status/prestige, may indeed be integral to the disillusionment and subsequent departure from the profession, which is now a well documented phenomenon. It is imperative, in order to address the dilemma created by the current shortage of working nurses, that the underlying causes be more clearly delineated, described and researched.

Essentially, this is an apparently new approach to research addressing the critical shortage of employed professional nurses. This problem solving paper is isolating one component of the multiple reasons previous research has indicated as partially responsible for the current crisis in nursing. Accordingly, the bulk of available literature relevant to the subject is research which addresses the problem in generalities rather than specifics. By and large, accomplishment of the proposed project itself will require extensive

application of research techniques and methodologies. It is further anticipated that the analysis and subsequent findings generated by this research will shed new perspectives on the nursing shortage.

NESS . TELECORY SEESSESS . TOTAL CONTROL SEESLESS.

Research Objectives and Methodology

The objectives of this research have been alluded to during this introduction but are appropriately delineated at this juncture.

- Identify patterns in the physicians' perceptions of the role of the professional nurse.
- Identify variances among physicians with regard to perceptions and values of the educational processes of professional nurses.
- Identify variances among physicians with regard to roles perceived as appropriate for professional nurses.
- Identify variances among physicians based upon specialty, status (e.g., staff, resident, intern) and years in service.
- Identify variances between responses to pre-selected pairs of questions.
- Construct a valid data collection tool in the form of a questionnaire.

Preparation and Dissemination of the Data Collection Instrument

The data collection tool utilized was a questionnaire which was constructed using information derived from interview data gathered from ten Army Nurse Corps officers. A copy of this survey is provided at Appendix B. In addition, five administrative residents were asked to review the questionnaire and to make suggestions about the clarity of the items and instructions. After revision, based on these answers and suggestions, the questionnaire was prepared in final format. Part One of the survey elicits specific demographic data in order to classify respondents according to age, specialty, sex and educational status. The data requested was limited to generalities in order to protect the anonymity of the respondents. Part Two of the survey consisted of ten statements which addressed physician perceptions of the educational process and potential of the professional nurse. Part Three of the survey consisted of twenty questions which addressed physician perceptions of the role of the professional nurse, to include position and status.

The questionnaire, along with an explanatory cover letter, was individually addressed and sent to each physician assigned to Madigan Army Medical Center. Civilian physicians employed at the Center were not included in this survey. Tedious efforts were undertaken to insure that each physician received the questionnaire. Interns received their questionnaires through their mail boxes. Staff, Fellows and

residents received questionnaires through the Service to which they were assigned at the time the survey was conducted. The Commanding General, Chief of Professional Services and all department chiefs were briefed on the project and their support solicited. Fourteen days were allowed between distribution of the survey and the suspense date for reply. A total of 282 questionnaires were disseminated.

Coding and Analysis of Data

Upon receipt of the completed questionnaire, each variable was assigned a code number to be utilized in the preparation of data cards for the computerized analysis. A synopsis of these codes is provided in Appendix C, to which the reader will frequently be referred. The coded data was forwarded to the Learning Resource Lab at the Academy of Health Sciences, Fort Sam Houston, Texas. The parameters were defined for statistical analysis, utilizing the Statistical Package for the Social Sciences (SPSSH).

Histograms and multi-dimensional cells will be employed to display descriptive statistics of the population survey as well as responses to each survey question. Cross tabulations were performed on responses to pre-selected questions. Responses to key paired questions were compared and responses were further categorized by demographic variables in order to indicate variances in perceptions among different groups. In the analysis, Agree and Strongly Agree responses will consistently indicate positive perceptions and attitudes.

Criteria for Analysis

The criteria of analysis will be:

- 1. Validity of the measurement process will be confirmed if the number of returned questionnaires represents greater than fifty percent of the population. A desired response rate of greater than fifty percent, or 139 responses, was judged to be an adequate return in recognition of the time constraints of the physicians.
- 2. Respondents to the questionnaire must have completed the biographical information section in order for the questionnaire to be included in the analysis. Determination of variances will be dependent upon the information derived from this data.
- 3. The format of the questionnaire allows for respondents to reply to all statements. Thus, questionnaires returned with only demographic data and no responses in part two and part three will not qualify for inclusion in the research analysis.

The data generated by the survey will be presented in a sequential format following the structure of the questionnaire. Subsequent to an individual analysis of each question, cross tabulations and group variances will be addressed, as appropriate.

The following pages comprise the survey analysis. The reader is referred to Appendix D, in which hypothesis tests for selected items of information appear. The statistical test utilized to support dependence or independence of variables was the Chi square test at a level of significance of 0.05. The summary table in Appendix D lists all hypothesis tests which were utilized. The remainder of that Appendix is composed of the actual printouts from the computer used in the statistical testing, and correspond to the hypothesis in the summary table.

\$3555 \$355555 \$355555 \\ \text{\$255555} \text{\$255555} \\ \text{\$2555555} \\ \text{\$255555} \\ \text{\$2555555} \\ \text{\$255555} \\ \text{\$255555} \\ \text{\$255555} \\ \text{\$255555} \\ \text{\$255555} \\ \text{\$255555} \\ \text{\$25555555} \\ \text{\$255555} \\ \text{\$255555} \\ \text{\$255555} \\ \tex

The transition from planning to doing separates the ideologist from the empiricist.

-- Anonymous

CHAPTER II

DISCUSSION

A total of 282 questionnaires were distributed, one for each military physician assigned to Madigan Army Medical Center. A total of n = 156 responses were returned by the designated suspense date. These 156 responses comprise the data which was analyzed in this research effort. Further, the returned surveys represented 55 percent of the population, which satisfies the first criterion for analysis as proposed in the research methodology. The raw percentage is improved if the nineteen physicians on temporary duty, leave status, or who are no longer assigned are subtracted from the original N = 282. The questionnaires returned now represent 59 percent of the corrected population available for survey. It should also be noted that twentyfour surveys were received after the suspense date. It was impossible to include these in the analysis due to time and distance constraints encountered in the use of out-of-state computer assistance. However, the import of the fact that 68 percent of all physicians contacted did respond cannot be overstated.

Characteristics of Respondents

A number of background characteristics were included at the beginning of each questionnaire to permit the classification of the

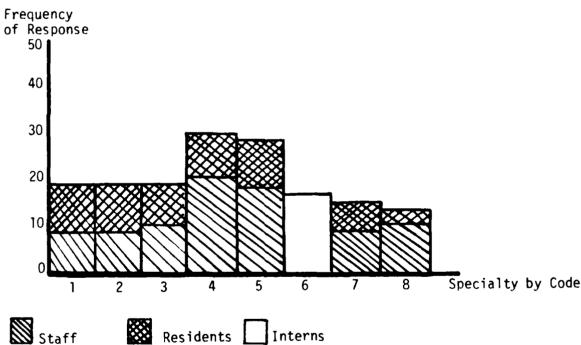
respondents on a number of independent variables. The average respondent is between thirty and thirty-five years of age, is a member of the staff, has less than six years experience in the military service, is male, and has not worked in the civilian community. Physicians in a fellowship status have been included in staff statistics. Table 1 presents the background traits of the physician respondents studied.

TABLE 1

CHARACTERISTICS OF RESPONDENTS:
STAFF VERSUS RESIDENTS AND INTERNS

Characteristics	Staff	Residents	Interns
No. of Respondents	84	55	17
No. of Potential Respondents	122	117	43
Percent of Usable Responses	68.8	47.0	39.5
Percent of Respondents by Position	53.8	35.3	10.9
Median Yrs of Birth	1941-45	1951-after	1951-after
Years in Service	10-12	0-3	0-3
Percent of Respondents With Civilian Experience	47.6	20.0	0
Percent of Respondents Who are Male	94.0	96.4	100

A frequency distribution is utilized to portray the number of respondents by specialty. The majority of respondents (36%) belong to the Departments of Medicine and Surgery. Major specialties are indicated as separate entities. Specialties comprised of less than eight physicians were grouped under the category of "other." Specialties which evidenced a response rate less than 35% were also included in the "other" category. Figure 1 provides a display of this data. (See Appendix C for interpretation of Data Codes.)



Kertosis = -0.955

Skewness = 0.066

A normal distribution is evidenced for this variable.

Fig. 1--Frequency Distribution of Respondents by Specialty

The survey distribution was careful to include all physicians in order that various target groups would be embraced. The afore-referenced characteristics indicate that the survey results should not be significantly influenced by one one professional orientation or position. In this regard, the actual analysis of certain items within the survey demonstrates the inflections of responses to various questions that differing socialization processes exert upon individual perceptions.

Perceptions of Academic Training & Potential

To establish a basic frame of reference as to the actual knowledge and perceived value/potential of the nurses' educational process, physicians were asked to agree or disagree with ten statements in Part Two of the survey. The following discussion presents a summary of the findings for each statement, to include a composite analysis.

Table 2 provides a display of the responses to Statement One in Part Two of the survey.

PERCENTAGE OF RESPONSES, BY PHYSICIAN POSITION,
TO THE STATEMENT: THE COURSE OF STUDIES VARIES WITH DIFFERENT
LEVELS OF EDUCATIONAL PROGRAMS FOR NURSING

RESPONSE	STAFF	RESIDENTS	INTERNS
No Response	4.7	1.8	0
Agree	91.4	90.9	94.1
Disagree	3.9	7.3	5.9
l	1	1	1

As is clearly shown, a majority of the respondents indicate a distinct perception that educational training does vary between the different types of nursing programs (e.g., BSN, Diploma and ADN). A Chi square of 4.32 and a significance of 0.63 indicates that there is not a relationship between the response to this statement and the position of the physicians responding, e.g., staff, resident, intern. The aggregate of respondents, 94%, agreed with the statement.

Table 3 provides a display of the responses to Statement Two in Part Two of the survey.

TABLE 3

PERCENTAGE OF RESPONSES, BY PHYSICIAN POSITION,
TO THE STATEMENT: NURSES GRADUATED FROM BACCALAUREATE PROGRAMS
IN NURSING ARE BETTER PREPARED TO MAKE
CLINICAL ASSESSMENTS OF A PATIENT'S STATUS

RESPONSE	STAFF	RESIDENTS	INTERNS
No Response	3.6	3.6	11.8
Agree	41.6	34.6	58.8
Disagree	54.8	61.8	29.4

In the aggregate, 54% of the physicians disagreed with the statement, 41% agreed and 5% expressed no response. This data is in contrast to the overwhelming majority (94%) who agreed with Statement One, that there is a difference in educational preparation. Despite this response, the physicians now indicate that regardless of these differences, Baccalaureate nurses are not necessarily better prepared for the functional setting. A Chi square of 8.90 and a significance of 0.17 again indicates no relationship between the responses and the physicians' position.

Table 4 provides a display of the responses to Statement Three in Part Two of the survey.

PERCENTAGE OF RESPONSES, BY PHYSICIAN POSITION,
TO THE STATEMENT: THE DEGREE OF RESPONSIBILITY A
NURSE ASSUMES SHOULD BE DIRECTLY PROPORTIONATE
TO HIS/HER ACADEMIC PREPARATION

TABLE 4

RESPONSE	STAFF	RESIDENTS	INTERNS
No Response	0	0	0
Agree	42.8	49.1	41.2
Disagree	57.2	50.9	58.8

As previously stated, physicians indicated a recognition that there are variances in nurses' educational programs. The majority of responses to this statement imply that there is no perceived need for a relationship between educational preparation and roles which nurses assume. A total of 55% of the surveyed population disagreed with the statement. It is important to note that no distinct conclusions

may be drawn, only the perceptions of the simple majority stated.

A chi square of 2.00 and significance of 0.517 indicates there is
no relationship between the responses and the physicians' position.

Table 5 provides a display of the responses to Statement Four in Part Two.

TABLE 5

PERCENTAGE OF RESPONSES, BY PHYSICIAN POSITION,
TO THE STATEMENT: AN INDIVIDUAL WITH A BACCALAUREATE
DEGREE IN NURSING IS TRAINED TO FUNCTION AS PROFICIENTLY IN
THE CLINICAL AREA AS IN MANAGEMENT POSITIONS

RESPONSE	STAFF	RESIDENTS	INTERNS
No Response	2.4	5.4	11.8
Agree	42.9	36.4	52.9
Disagree	54.7	58.2	35.3

Again, the population surveyed is nearly equally divided on this point, with 55% disagreeing with the statement. Once again the Chi square analysis shows no relationship between the response and the position held by the physician. Chi square = 7.95 and significance - 0.24.

Table 6 affords a display of the responses to Statement Five in Part Two of the survey.

TABLE 6

PERCENTAGE OF RESPONSES, BY PHYSICIAN POSITION, TO THE STATEMENT: RECOMMENDATIONS FROM NURSES, WITH RESPECT TO A PATIENT'S TREATMENT REGIME, SHOULD BE SOLICITED AND CONSIDERED BY THE PHYSICIAN

STAFF	RESIDENTS	INTERNS
0	1.8	0
86.9	83.6	82.4
13.1	14.5	17.6
	0 86.9	0 1.8 86.9 83.6

A total of 85% of all respondents indicated that recommendations should be solicited from nurses with respect to the patients' treatment regime. A Chi square of 2.11 and significance of 0.90 once again indicates that no relationship exists between the physicians' position and his response.

Table 7 provides a display of the responses to Statement Six in Part Two of the survey.

TABLE 7

PERCENTAGE OF RESPONSES, BY PHYSICIAN POSITION,
TO THE STATEMENT: DURING THEIR EDUCATIONAL PROCESS NURSES
ARE TAUGHT TO INTEGRATE KNOWLEDGE OF PATHOPHYSIOLOGY WITH ACTUAL
ASSESSMENTS AND COURSES OF ACTION IN THE PATIENT CARE SETTING

RESPONSE	STAFF	RESIDENTS	INTERNS
No Response	2.4	5.5	17.6
Agree	84.5	74.5	76.5
Disagree	13.1	20.0	5.9

A total of 85% of all respondents indicated they agreed that nurses' educational processes were grounded in theory and reinforced with clinical application. A Chi square of 13.18 and significance of 0.04 indicate a strong relationship exists between the position of the respondent and his/her response. Staff members, with more experience, exhibit a more positive response which would indicate a greater degree of familiarity with nurses' educational preparation. This response is supportive of the responses to Question 5 in Part Two, which was previously addressed. It is interesting to note that a larger percentage of staff physicians express agreement than do residents and interns. This may be a function of the "student" status of the residents and interns and how they perceive the utilization or function of the nurse relative to their own position. This may also be utilized as an indicator of the degree of reliance a physician may vest in a nurse. It may be appropriate to assume a staff physician has learned to rely upon nurses in more arenas than have the younger, less experienced interns and residents.

Table 8 provides a display of the responses to Statement Seven in Part Two of the survey.

TABLE 8

PERCENTAGE OF RESPONSES, BY PHYSICIAN POSITION,
TO THE STATEMENT: NURSES ARE NOT MERELY TECHNICIANS
BUT RATHER THEY MUST EFFECTIVELY COMBINE TECHNICAL CAPABILITIES
WITH THEORETICAL KNOWLEDGE IN ORDER TO PERFORM EFFICIENTLY

RESPONSE	STAFF	RESIDENTS	INTERNS
No Response	0	0	0
Agree	97.6	92.7	94.1
Disagree	2.4	7.3	5.9

The majority of respondents, 95%, indicated agreement with the premise that nurses are not merely technicians. This is 10% more than those physicians who believe pathophysiology is a substantial component of the educational process. It would be logical to assume a correlation between the response to Statement 6 and Statement 7. In actuality, however, more respondents agreed with Statement 7 than with Statement 6. A Chi square of 2.05 and significance of 0.56 indicates no strength of relationship between position and response.

Table 9 provides a display of the responses to Statement Eight in Part Two of the survey.

TABLE 9

PERCENTAGE OF RESPONSES, BY PHYSICIAN POSITION,
TO THE STATEMENT: IT IS APPROPRIATE FOR A NURSE TO QUESTION
A PHYSICIAN'S CHOICE OF TREATMENT MODALITIES IN CASES WHERE THE
NURSE BELIEVES THE TREATMENT MAY BE DETRIMENTAL TO THE PATIENT

RESPONSE	STAFF	RESIDENTS	INTERNS
No Response	2.4	0	0
Agree	95.2	92.7	100
Disagree	2.4	7.3	0

In the aggregate, 95% of all physicians surveyed expressed agreement, indicating they feel it is appropriate for nurses to question treatment modalities. This is 10% more than the number who felt comments and recommendations should be solicited from nurses. Chi square analysis shows no relationship between response and position.

Table 10 gives a display of the responses to Statement Nine in Part Two of the survey.

TABLE 10

PERCENTAGE OF RESPONSES, BY PHYSICIAN POSITION,
TO THE STATEMENT: THE EDUCATIONAL PROCESS FOR NURSES
HAS INCREASED WITH RESPECT TO DEPTH, SCOPE AND COMPLEXITY OF
ACADEMIC PREPARATION. THE NEW NURSE IS MORE APPROPRIATELY
CONSIDERED AS A COLLEAGUE RATHER THAN HANDMAIDEN TO THE PHYSICIAN.

RESPONSE	STAFF	RESIDENTS	INTERNS
No Response	4.8	7.3	5.9
Agree	71.4	76.4	70.6
Disagree	23.8	16.3	23.5
1		l '	1

Only 73% of the aggregate survey population agreed with this statement. Numerous physicians expressed reservations about the use of the term 'colleague' while others denied that nurses had ever been handmaidens to the physicians. It is the perception of this researcher that a significant number of physicians agreed to the statement with evidential reservations. A Chi square of 9.86 and significance of 0.13 do not evidence strength of relationship between position and response.

Table 11 provides a display of the responses to Statement Ten in Part Two of the survey.

TABLE 11

PERCENTAGE OF RESPONSES, BY PHYSICIAN POSITION,
TO THE STATEMENT: NURSES, BY VIRTUE OF THEIR EDUCATION,
ARE COMPETENT TO MAKE CLINICAL ASSESSMENTS AND PURSUE
APPROPRIATE COURSES OF ACTION IN PATIENT CARE

RESPONSE	STAFF	RESIDENTS	INTERNS
No Response	7.1	5.5	11.8
Agree	50.0	61.8	64.7
Disagree	42.9	32.7	23.5
		1	ļ

In the aggregate, 56% agreed and 7% chose not to answer. The ambiguity of the question is acquiesced, and no conclusions are drawn on this point. Physicians' comments on the survey forms confirm the decision to invalidate this statement.

Analysis and Summary

Failure to recognize inherent differences in the Diploma, Associate Degree and Baccalaureate Nursing Programs has precipitated difficulty in establishing appropriate expectations of the registered nurse. Hence, there is a proposed correlation in failure to acknowledge differences and nurses' claims of misutilization, underutilization and dissatisfaction, as referenced earlier. In this research study, physicians overwhelmingly (94%) agreed that differences in the programs of educational preparation do exist. However, this recognition is strongly tempered by responses to more specific statements regarding nurses' education at the

Baccalaureate level. Despite agreement that differences exist between the two, three and four year programs, 54% felt that 4-year programs did not better prepare nurses for functional expertise in the clinical arena. Further, 55% did not feel that the educational background of the nurse should be correlated with the responsibility he/she assumes. In addition, 55% did not feel that four year nursing programs trained nurses to function in management positions. In fact, four year programs address leadership and management principles, to include the skills necessary to coordinate patient care services, and community health nursing, which requires independent actions and responsibilities. ²²

SONDARING MANAGEMENT RESERVES TRANSPORT TRANSPORT TO A SERVICE OF THE SERVICE OF

Another facet of this component of the survey sought to establish physicians' perceptions with respect to the nurses' educational background in pathophysiology, theoretic knowledge and supportive clinical skills. A total of 85% of the respondents indicated they believed the nurses' educational process included integration of pathophysiology with clinical assessment. Also, 95% agreed that this theoretical knowledge elevated the nurse above the level of a technician. In contrast, only 56% felt the nurse was competent to make clinical assessments. There was strong agreement, (85%) among physicians surveyed that comments and recommendations should be solicited. Further, 95% of the physicians felt that it was appropriate for nurses to question a physician's order for patient treatment. It is particularly interesting to note that nearly two-thirds of all respondents qualified their agreement on these latter two points.

Comments such as: "if the nurse is discreet, it's okay;" "if she is polite I'll be receptive;" "as long as the patient doesn't hear;" were frequent annotations to the survey forms.

Finally, physicians were queried with regard to the role of the nurse as a colleague versus that of handmaiden. Fully 27% felt that the term 'handmaiden' was more appropriate. The 73% who elected the term 'colleague' as more characteristic often qualified their choice by questioning the meaning of the word colleague, for "certainly nurses should not be elevated to the same position of import as the physician," a quote from one survey. Webster defines colleague as "an associate in a profession..." and further, associate is defined as "...a fellow worker." The astute observer may be drawn to the strong possibility of a correlation between the physician's perceptions of the professional relationship between nurses and physicians and nurses' claims of lack of status/prestige.

Perceptions of The Nurses' Role

In 1978 Louis F. Nelson conducted a study on the perception of competencies by baccalaureate, diploma and associate degree graduates in technical, communicative and administrative skills. Nelson's findings suggest that each group perceived their degree of competency differently. Furthermore, Nelson expressed concern that employees of beginning practitioners need to have a realistic concept of the abilities of graduates of each type of program.

A search of the literature reveals no studies of physicians which address perceptions of nurses' roles, competency and administrative skills. Part Three of this research is designed to assess/determine these perceptions. The physician works more intimately with nurses in the clinical arena than do any other health care professionals. Thus, it would follow that their perception of the nurse and nursing roles would have direct influence on the status/prestige which nurses are accorded.

This portion of the discussion will address the responses of physicians to the twenty statements presented in Part Three of the survey.

Table 12 provides a display of responses to Statement One in Part Three.

PERCENTAGE OF RESPONDENTS INDICATING
THE PROFESSIONAL NURSE IS PREPARED TO MAKE INDEPENDENT
CLINICAL ASSESSMENTS OF A PATIENT'S STATUS

RESPONSE	STAFF	RESIDENTS	INTERNS
No Response	3.6	0	5.9
Strongly Disagree	6.0	10.9	0
Disagree	20.2	12.7	0
Neutral	14.3	23.6	23.5
Agree	40.4	45.5	70.6
Strongly Agree	15.4	7.3	0

The responses to this statement are particularly interesting when compared to Statement Two in Part Two. The single difference in the statements is the use of the term 'baccalaureate' in the former, and 'professional' in the latter. Staff physicians' responses indicated that 55% disagreed that Baccalaureate Nurses were better prepared to make clinical patient assessments, while only 26% disagreed that professional nurses are prepared to make the same assessments. Inclusion of those who did not answer and those who are neutral still reflects that only 44% disagreed with this statement, 14% less than the number that disagreed to the statement in Part Two. Of the residents, 62% disagreed in Part Two of the survey, while only 23.6% disagreed with the same statement in Part Three; inclusion of the neutral responses raises the percentage to 47%, still considerably less than previously indicated. Interns' responses display the same phenomenon, with 70% agreeing to the statement in Part Three, while only 59% agreed with the same statement in Part Two. There would appear to be a resistance to acknowledge that the Baccalaureate Nurse is better prepared. The term 'professional' may not be perceived as equating with 'baccalaureate'.

A Chi square of 25 and a significance of .04 indicate a strong relationship between physician response and position. The greatest shift in perception occurred among interns, followed by residents and then staff.

In Statement Two of Part Three, statistical analysis revealed no strength of relationship between the physicians' response and his or her position. Table 13 presents the responses to this statement.

PERCENTAGE OF RESPONSES INDICATING
PHYSICIANS' PERCEPTIONS OF BACCALAUREATE NURSES'
PREPARATION TO TAKE INDEPENDENT ACTIONS IN EMERGENCIES

RESPONSE	STAFF	RESIDENTS	INTERNS
No Response	3.5	0	0
Strongly Disagree	7.1	9.1	5.9
Disagree	22.6	18.2	17.6
Neutral	28.6	27.3	41.2
Agree	33.3	36.3	29.4
Strongly Agree	4.9	9.1	5.9

No conclusions are drawn with regard to responses to this statement, based upon the fact that 30% of the respondents chose to remain neutral in their answers. This large neutral response lends little credibility as to the validity of the statement.

Statement Three in Part Three of the survey seeks to ascertain physicians' perceptions of the value of the nurses' input to the treatment regimes of patients under their care. Table 14 provides a display of the responses to this statement.

TABLE 14

PERCENTAGE OF RESPONSES INDICATING
WHETHER PHYSICIANS AGREE/DISAGREE THAT THE OBSERVATIONS
AND SUGGESTIONS OF PROFESSIONAL NURSES ARE VALUABLE
IN THE TREATMENT OF PATIENTS

RESPONSE	STAFF	RESIDENTS	INTERNS
No Response	3.6	0	0
Strongly Disagree	2.4	3.6	0
Disagree	10.7	5.5	0
Neutral	9.5	10.9	23.5
Agree	41.7	38.2	23.5
Strongly Agree	32.1	41.8	52.9

A Chi square of 38.36 and a significance of 0.008 indicates a strong relationship between responses and physicians' positions. Responses indicate that interns place more value on a nurses observations and suggestions than do residents and staff. Residents tend to value nurses' input more than staff. This trend may represent the increasing independence the physician experiences as he/she gains experience and knowledge.

Statement Four in Part Three addresses the nurse's ability to assume progressively more responsible roles in administration and in clinical areas. Table 15 presents a display of responses to this statement.

TABLE 15

PERCENTAGE OF RESPONDENTS WHO AGREE/DISAGREE
THAT PROFESSIONAL NURSES ARE ACADEMICALLY PREPARED
TO ASSUME PROGRESSIVELY MORE RESPONSIBLE POSITIONS

RESPONSE	STAFF	RESIDENTS	INTERNS
No Response	3.6	0	0
Strongly Disagree	2.4	1.8	0
Disagree	14.2	16.4	5.9
Neutral	27.4	40.0	29.4
Agree	38.1	32.7	41.2
Strongly Agree	14.3	9.1	23.5

A significant number of neutral responses (32%) indicate that the validity of this statement may be questionable. Thus, the determination is made that no conclusions will be drawn with regard to this statement. Chi square analysis does support a strong relationship between responses and physicians' positions. Chi square = 30.929; significance = 0.009.

Statement Five in Part Three speaks to the membership of the Chief Nurse on the Hospital Executive Committee, based on his/her key role in the medical treatment facility. This question is theoretical in nature. Health Services Command regulations require that the Director of Nursing be a member of the Executive Committee. 24 It is perceived by the researcher that this is a valid area to explore

despite Department of the Army policies which alleviate discussion of the issue. Table 16 provides a display of responses to this statement.

PERCENTAGE OF RESPONDENTS WHO AGREE/DISAGREE
THAT THE CHIEF NURSE SHOULD BE A MEMBER OF THE EXECUTIVE COMMITTEE

RESPONSE	STAFF	RESIDENTS	INTERNS
No Response	1.2	1.8	0
Strongly Disagree	6.0	3.6	0
Disagree	6.0	10.9	0
Neutral	15.4	23.6	29.4
Agree	27.4	32.7	29.4
Strongly Agree	44.0	27.3	41.2
}	1	1	<u> </u>

A Chi square of 15.6 and significance of .41 do not indicate a strong relationship between responses to this statement and the physicians' positions. In the aggregate, 68% of all respondents expressed that they agreed or strongly agreed with the statement. Of concern are the 20% who were neutral and the 13% who disagreed to some extent. One would expect a decidedly positive reaction to this statement, given that the respondent possessed a functional knowledge of the role and responsibilities of the Chief Nurse. Residents tended to express less agreement with the statement than did staff or interns.

Statement Six in Part Three attempted to discern whether physicians perceived working relationships with nurses as critical to the delivery of patient care. Table 17 reflects the responses of physicians to this statement.

PERCENTAGE OF RESPONDENTS WHO AGREE
THAT THE PHYSICIANS' WORKING RELATIONSHIP WITH NURSES
IS A CRITICAL FACTOR IN PATIENT CARE

RESPONSE	STAFF	RESIDENTS	INTERNS
No Response	0	1.8	0
Strongly Disagree	0	0	0
Disagree	2.4	7.3	-5.9
Neutral	10.7	9.1	11.8
Agree	39.3	25.5	29.4
Strongly Agree	46.4	56.4	52.9

A Chi square of 12.82 and significance of 0.616 show no strength of relationship between response and position. In the aggregate 84% of all respondents indicate that they agree working relationships with nurses are critical to the delivery of patient care.

Statement Seven in Part Three queries physicians as to the status of nurses as equal 'partners' on the patient care team. Table 18 reflects the responses to this statement.

TABLE 18

PERCENTAGE OF RESPONDENTS WHO AGREE/DISAGREE NURSES SHOULD BE CONSIDERED EQUAL PARTNERS ON THE PATIENT CARE TEAM

RESPONSE	STAFF	RESIDENTS	INTERNS
No Response	2.4	0	0
Strongly Disagree	13.1	12.7	11.8
Disagree	25.0	25.5	23.5
Neutral	4.7	10.9	17.6
Agree	26.2	30.9	17.6
Strongly Agree	28.6	20.0	29.4
l .	1	1	l .

Physicians exhibit a slight tendency to favor nurses as equal partners with 52% responding positively and 38% electing negative responses. Only 8% of the respondents were neutral on the issue, these primarily being interns. A Chi square of 18.2 and significance of 0.25 indicates no strength of relationship between position and response.

Statement Eight in Part Three makes inquiry into the professional recognition nurses have achieved and whether physicians feel the recognition is adequate and deserved. Table 19 presents the responses to this statement.

TABLE 19

PERCENTAGE OF RESPONDENTS WHO AGREE/DISAGREE
THAT NURSES HAVE NOT ACHIEVED THE
PROFESSIONAL RECOGNITION THEY DESERVE

RESPONSE	STAFF	RESIDENTS	INTERNS
No Response	1.2	0	0
Strongly Disagree	8.3	10.9	0
Disagree	15.4	21.8	17.6
Neutral	22.6	18.2	11.8
Agree	31.0	38.2	41.2
Strongly Agree	21.4	10.9	29.4
· I	i.	1	1

A simple majority of the physicians responding, 53%, agree that nurses have not achieved the professional recognition they deserve. However, 20% indicated they were not sure if nurses had achieved satisfactory acknowledgement for professional abilities. A Chi square of 15.10 and significance of 0.44 shows no significant relationship between response and position. It becomes intuitively obvious that the overwhelming majority of the respondents are not completely sympathetic to the plight of nurses, as previously referenced research presents the problem. Based on the wide publicity given the nursing shortage, inadequate salaries, etc., it may have been appropriate to expect stronger tendencies, pro or con, with respect to this statement.

Statement Nine in Part Three queries physicians with respect to the amount of professional independence permitted of the professional nurse. Table 20 provides a display of the responses to this statement.

PERCENTAGE OF RESPONDENTS WHO AGREE/DISAGREE
THAT A GREAT DEAL OF PROFESSIONAL DEPENDENCE
IS PERMITTED OF THE NURSES WITH WHOM THEY WORK

TABLE 20

RESPONSE	STAFF	RESIDENTS	INTERNS
No Response	3.6	1.8	0
Strongly Disagree	2.4	9.1	5.9
Disagree	14.2	14.5	17.6
Neutral	19.0	16.4	29.4
Agree	39.3	43.6	41.2
Strongly Agree	21.4	14.5	5.9

Again, a Chi square analysis shows no relationship between the physicians' responses and the positions they hold. The majority (58%) agree that a great deal of professional independence is permitted/ required of the professional nurses with whom they work. Fully 20% are undecided with regard to this statement. Chi square = 13.40; significance = 0.56.

Statement Ten takes the previous topic one step further and asks physicians if the professional independence permitted is appropriate. Table 21 indicates the responses to this statement.

TABLE 21

PERCENTAGE OF RESPONDENTS WHO AGREE/DISAGREE
THAT THE PROFESSIONAL INDEPENDENCE PERMITTED IS APPROPRIATE

STAFF	RESIDENTS	INTERNS
3.6	1.8	0
2.4	12.5	0
13.1	16.4	23.5
21.4	16.4	17.6
40.5	47.3	35.3
19.0	12.7	23.5
	3.6 2.4 13.1 21.4 40.5	3.6 1.8 2.4 12.5 13.1 16.4 21.4 16.4 40.5 47.3

In accordance with the now established trend, a Chi square analysis does not support a relationship between the chosen responses and the physicians' positions. In the aggregate, 60% agree that the independence permitted of professional nurses is appropriate. 20% of the respondents remain undecided. Responses to this statement tend to mirror responses to the previous statement fairly closely, indicating a consistency in this perception.

Statement Eleven in Part Three requests physicians to indicate whether they perceive different professions mingling with each other.

Table 22 presents the responses to this statement.

TABLE 22

PERCENTAGE OF RESPONDENTS WHO AGREE/DISAGREE
THAT PERSONNEL FREQUENTLY MINGLE WITH OTHERS
OF DIFFERENT PROFESSIONS

RESPONSE	STAFF	RESIDENTS	INTERNS
No Response	0	0	0
Strongly Disagree	9.5	0	0
Disagree	9.5	0	0
Neutral	28.6	. 0	17.6
Agree	35.7	87.5	64.7
Strongly Agree	16.7	12.5	17.6
1	1	1	1

In the aggregate 60% of all respondents agree that personnel of differing professions mingle with one another. 25% indicated neutral responses, primarily amongst staff members. The positive perception appears to be significantly stronger amongst residents and interns. A Chi square of 20.35 and significance of 0.06 would tend to support this observation, indicating a relationship between response and position.

Statement Twelve in Part Three asks physicians to indicate whether the expertise of the professional nurse enables them to deliver better patient care. Table 23 provides a display of the responses.

TABLE 23

PERCENTAGE OF RESPONDENTS WHO AGREE/DISAGREE THAT THE EXPERTISE OF NURSES ALLOWS DELIVERY OF BETTER PATIENT CARE

RESPONSE	STAFF	RESIDENTS	INTERNS
No Response	1.2	3.6	0
Strongly Disagree	0	9.1	0
Disagree	14.3	9.1	5.9
Neutral	20.2	14.5	29.4
Agree	36.9	40.0	47.1
Strongly Agree	27.4	23.6	17.6

20% of the respondents provided neutral responses to this statement, while 65% indicated agreement. There was a slight tendency for residents to respond negatively more frequently than staff or interns. A Chi square of 22.66 and significance of 0.09 indicate some strength of relationship between position and response.

Statement Thirteen in Part Three addresses physicians' perceptions of nursing support in critical/rused situations. Table 24 presents a display of the responses to this statement.

PERCENTAGE OF RESPONDENTS WHO AGREE/DISAGREE THAT NURSES DON'T HESITATE TO HELP

IN CRITICAL/RUSHED SITUATIONS

TABLE 24

RESPONSE	STAFF	RESIDENTS	INTERNS
No Response	0	0	0
Strongly Disagree	1.2	9.1	0
Disagree	3.6	7.3	11.8
Neutral	17.9	12.7	11.8
Agree	45.2	40.0	47.1
Strongly Agree	32.1	30.9	29.3

A Chi square of 12.97 and significance of 0.37 indicates no strength of relationship between the responses and the physicians' position. In the aggregate, 75% of all respondents agreed that nurses didn't hesitate to help in critical situations. Although perhaps not statistically significant, 25% perceived nurses as non-contributory in crisis situations. A provider in the patient care area must necessarily be concerned that one quarter of the respondents have provided negative feedback on this particular point. As members of the patient care team, nurses would be expected to exhibit a considerable degree of dismay at the negative perception. An evaluation of the validity of the perception may be most appropriate.

Statement Fourteen asks physicians if the pay and status of professional nurses is reasonable. Responses to this statement are presented in Table 25.

PERCENTAGE OF RESPONDENTS WHO AGREE/DISAGREE
THAT THE PAY AND STATUS OF PROFESSIONAL NURSES IS REASONABLE

RESPONSE	STAFF	RESIDENTS	INTERNS
No Response	1.2	0	0
Strongly Disagree	4.8	12.7	0
Disagree	14.3	18.2	17.6
Neutral	22.6	34.5	23.5
Agree	39.3	20.0	41.2
Strongly Agree	17.8	14.5	17.6

In the aggregate, 49% of the respondents agree that the pay and status of professional nurses is not reasonable, considering the expectations demanded of them. However, 27% are neutral in their response! As compared to Statement Eight in Part Three, only 49% feel pay and status is not reasonable, while 53% agreed that nurses have not achieved the recognition they deserve. Despite the tremendous amount of literature addressing the subject, 27% of the respondents remain neutral on the issue! A Chi square of 13.53 and significance of 0.56 does not support a relationship between response and position.

Statement Fifteen queries respondents as to the teamwork and cooperation they perceive between physicians and nurses. Table 26 displays the responses to this statement.

PERCENTAGE OF RESPONDENTS WHO AGREE/DISAGREE
THAT THERE IS A GOOD DEAL OF TEAMWORK AND COOPERATION
BETWEEN PHYSICIANS AND NURSES

TABLE 26

RESPONSE	STAFF	RESIDENTS	INTERNS
No Response	1.2	3.6	0
Strongly Disagree	0	3.6	5.9
Disagree	6.0	16.4	5.9
Neutral	22.6	12.7	5.9
Agree	50.0	43.6	52.9
Strongly Agree	20.2	20.0	29.4

In the aggregate, 70% of all respondents agree that a significant amount of teamwork does exist between physicians and nurses. A Chi square of 22.99 and significance of 0.08 do not indicate a strong relationship between physician response and position. It is interesting to note that this statement elicited a more positive response than did Statement Twelve in Part Three. Although physicians agree there is a good deal of teamwork between themselves and nurses, fewer (60%) agreed that the contributions of the nurses allowed/enhanced delivery of better patient care.

Statement Sixteen in Part Three asks physicians if nurses should have the opportunity to participate in the administrative decision—making process. Table 27 presents a display of the responses to this statement.

PERCENTAGE OF RESPONDENTS WHO AGREE/DISAGREE
THAT NURSES SHOULD PARTICIPATE IN THE
ADMINISTRATIVE DECISION-MAKING PROCESS

RESPONSE	STAFF	RESIDENTS	INTERNS
No Response	2.4	3.6	o
Strongly Disagree	3.6	3.6	0
Disagree	4.6	3.6	5.9
Neutral	16.7	29.1	5.9
Agree	48.7	38.2	47.0
Strongly Agree	24.0	21.8	41.2

A Chi square of 11.14 and significance of 0.74 indicates that no relationship exists between the chosen responses and the physicians' positions. Of all respondents, 20% were neutral on this point, eliciting some doubt as to whether these physicians comprehend the large percentage of resources under the control of nursing personnel; 70% responded positively to the statement. Residents were more neutral on the issue than any other group, followed by staff physicians and interns.

Statement Seventeen proceeds to ask physicians if nurses should be involved in the clinical decision-making process. Responses to this statement are provided in Table 28.

PERCENTAGE OF RESPONDENTS WHO AGREE/DISAGREE
THAT NURSES SHOULD PARTICIPATE IN THE
CLINICAL DECISION-MAKING PROCESS

TABLE 28

RESPONSE	STAFF	RESIDENTS	INTERNS
No Response	1.2	1.8	0
Strongly Disagree	5.6	9.1	5.8
Disagree	12.0	9.1	0
Neutral	13.1	20.0	11.8
Agree	47.8	43.6	47.1
Strongly Agree	20.2	16.4	35.3

As compared to the previous statement, slightly fewer (67%) agree that nurses should be included in the clinical decision-making process. At the same time, only 15% elected a neutral stance as compared to 20% for the previous statement. Again, no relationship is established between response and position based upon a Chi square of 10.00 and significance of 0.81.

Statement Eighteen in Part Three requests physicians to indicate if they believe physicians understand and appreciate what the professional nursing staff does. Responses to this statement are displayed in Table 29.

PERCENTAGE OF RESPONDENTS WHO AGREE/DISAGREE
THAT PHYSICIANS UNDERSTAND AND APPRECIATE
WHAT THE NURSING STAFF DOES

RESPONSE	STAFF	RESIDENTS	INTERNS
No Response	1.2	1.8	0
Strongly Disagree	4.7	5.5	5.9
Disagree	16.7	21.8	11.8
Neutral	31.0	27.3	23.5
Agree	35.8	40.0	41.2
Strongly Agree	10.7	3.6	17.6

A Chi square of 6.67 and significance of 0.96 indicates no relationship between position and response. In the aggregate, 23% of the respondents indicated they did not believe physicians understood and appreciated what the professional nursing staff does. In addition, 29% were not sure if they understood. These responses account for the simple majority or 52% of all respondents. This statement alone may cast doubt on the validity of physicians' perceptions if the

preponderance of physicians claim they don't know or are unsure of the professional nurse's role. It would appear that at least some perceptions are based on "feeling" rather than factual knowledge.

Statement Nineteen in Part Three asks physicians if nurses should be able to rely on physicians to "back them up" when they make decisions in the clinical arena. Table 30 provides a display of the responses to this statement.

PERCENTAGE OF RESPONDENTS WHO AGREE/DISAGREE
THAT NURSES SHOULD HAVE THE FREEDOM TO MAKE DECISIONS
AND BE ABLE TO COUNT ON THE PHYSICIAN TO BACK THEM UP

TABLE 30

RESPONSE	STAFF	RESIDENTS	INTERNS
No Response	4.7	3.6	11.8
Strongly Disagree	9.5	12.7	5.9
Disagree	15.5	21.8	17.6
Neutral	26.2	23.6	5.9
Agree	38.0	27.3	41.2
Strongly Agree	6.0	10.9	17.6
1		l i	

Based upon the fact that 23% of the respondents gave neutral responses to the statement, the validity of this statement is challenged. Further, 33% disagreed while 44% agreed with the issue. In the final analysis, any conclusions would not be well grounded.

The ambiguity of this statement is acquiesced. Chi square analysis indicates no strength of relationship between response and position.

Statement Twenty in Part Three queries physicians as to whether or not they agree with organizational structures which have elevated the position of Chief, Department of Nursing to an Associate Administrator position. Numerous civilian institutions have initiated this structural change due to the scope of responsibility this individual assumes. Control over a majority of the manpower resources, to include salary and budgets, represents a portion of the factors which have precipitated this change. Responses to Statement Twenty are displayed in Table 31.

PERCENTAGE OF RESPONDENTS WHO AGREE/DISAGREE
THAT IT IS APPROPRIATE TO ELEVATE THE POSITION OF
CHIEF, DEPARTMENT OF NURSING TO AN ASSOCIATE ADMINISTRATOR LEVEL

RESPONSE	STAFF	RESIDENTS	INTERNS
No Response	3.5	3.6	0
Strongly Disagree	9.5	9.1	0
Disagree	10.7	9.1	5.9
Neutral	34.5	38.2	35.3
Agree	28.5	27.3	29.4
Strongly Agree	13.2	12.7	29.4

In the aggregate, 36% of all physicians responded that they were neutral or undecided with regard to the issue; 43% agreed that the escalation of the Chief Nurse in the organizational structure was appropriate. These responses are in contrast to Statement Five in Part Three, where 68% of the respondents agreed that the Chief Nurse should be a member of the Executive Committee, consequent to his/her expertise and unique input. It should be noted that in military settings the Chief Nurse is the only department chief mandated by regulation to sit on the Executive Committee. Only 20% of the respondents were neutral to Statement Five as versus 36% who were neutral to this statement. The conclusion may be that the Chief Nurse should be utilized for support, input and expertise but not necessarily elevated in the hierarchy of the organization, despite the broad parameters of the position. A Chi square of 12.16 and significance of 0.66 indicate there is no relationship between response and position.

Summary and Analysis

This final segment of the survey sought to query physicians on their perceptions of nurses' roles, utilization of professional nurses, salaries, status and position. These are the primary issues which were addressed in the introductory remarks. National surveys as well as research and journal articles have consistently referenced these issues as precipitous factors in the nursing shortage. Analysis

of the responses from Part Three of the survey will be addressed in relation to these established factors.

In Statement Four of this section, 50% of all respondents indicated that they agreed that professional nurses are academically prepared to assume progressively more responsible positions in clinical and administrative areas. However, a significant number of respondents (32%) were unsure or neutral. In contrast, physicians responded more positively to Statements Sixteen and Seventeen, indicating nurses should have the opportunity to participate in both clinical and administrative decision-making processes. Fully 70% agreed with Statement Sixteen regarding involvement in administrative decisions, while 67% agreed with nurses' participation in clinical decisions. These responses would tend to support survey comments which clearly indicated physicians were hesitant to base judgements, perceptions or evaluations on a nurse's educational background. An often repeated comment on the survey which apparently echoes the thoughts of many physicians is that "The value of a nurse depends on experience, personality and ability to communicate -- not necessarily a four year degree." This perception would have tremendous impact on utilization and status of not only professional nurses but technical nurses as well, perhaps yielding the disillusionment and under/over utilization nurses disparage.

Physicians who feel they understand and appreciate what the professional nursing staff does represent only 47% of the survey population, and 29% claim they are not sure if they understand. In comparison, 27% are unsure if the pay and status of the professional nurse is reasonable, while 49% agree that it is. In contrast, 53% of the respondents believe nurses have not achieved the professional recognition they deserve. The data presented above would indicate that although the majority of physicians claim they either don't understand/appreciate what nurses do, fewer express hesitancy or indecision with regard to status, salary and recognition. In essence, opinions may be grounded less in factual knowledge and more in visceral perceptions.

Fully 85% of the respondent population agree that although the Chief Nurse is one of many department heads, this individual should be a member of the Executive Committee, which consists of the organization's hierarchy but does not necessarily include other department or service chiefs. However, only 43% of the respondents agreed that it was appropriate for the Chief Nurse's position to be elevated to the position of Associate Administrator. Traditionally, the Executive Committee exists to make command decisions in the arena of policy, planning and guidance. Physicians have acquiesced that the Chief Nurse brings a unique input to this arena, however, this does not equate to a positional alteration within the organization's hierarchy. The inference is made that this

PROCESS OF STREET, STR

may be correlated to nurses' complaints of low status and prestige, especially if the perception pervades all levels of the organization. There appears to be a trend among physicians to balk at nurses in administrative roles. Beyond the analysis provided thus far, numerous comments were added to the survey forms. Physicians observed: "if nurses want to be managers, let them get an M.B.A.;" "nurses should concentrate on being nurses;" and "nurses should only manage nurses." The difficulty here rests in the fact that at virtually every functional level nurses are responsible for managing resources: people, time and money. This begins at the level of team leader to the Head Nurse and upward through the organizational structure. The different educational programs prepare nurses at different levels to assume these responsibilities which are inherent to the "job" of being a nurse. Perhaps the negation or avoidance of the fact that nurses bear these responsibilities serves to reinforce the disillusionment nurses have expressed.

The differentiation and recognition of clinical abilities based upon educational background is surfaced again in responses to two statements in Part Three of the survey. A total of 56% of the physicians surveyed agreed that professional nurses are prepared to make independent clinical assessments of a patient's medical status. However, only 46% agreed that Baccalaureate programs prepare nurses to take independent actions. This phenomenon was addressed earlier in this discussion and apparently reflects a hesitancy for physicians to equate educational

background with clinical ability/expertise. Further pursuing the nurse's independence, 58% of the physicians surveyed agreed that a great deal of professional independence is permitted, if not required. Sixty percent of the respondents felt that the independence permitted was appropriate. These responses are in contrast to the 46% of respondents who previously indicated they did not understand or were uncertain of what professional nurses do. The subtle theme which threads its way through this analysis is the question of role identity.

The most positive assertions were found in the arena of the nurses' value to the health care team. Physicians (65%) agreed that the nurses' expertise enhances the delivery of patient care; 76% agreed that nursing observations and suffestions were important factors in determination of treatment regimes; 84% felt that the working relationship between physicians and nurses was critical to "good" patient care; and 75% agreed that nurses don't hesitate to assist in critical or rushed situations.

Physicians generally project a consensus of perception which indicates they value the nurse and the input provided by this individual to the patient care process. However, the perception may be described in terms of viewing the nurse as a support system. Fully 40% disagreed that a nurse should be considered as an equal partner on the patient care team. These perceptions are not in conflict with the traditional practice of nursing. The discord surfaces with the

evolution of a nursing practice in the throes of struggling to achieve a professional stature.

Cross-tabulations of Responses to Selected Statements

Several statements in Parts Two and Three of the survey were preselected for cross-tabulation of responses based upon the similarities inherent in the statements. Previous discussion has compared and contrasted responses in an attempt to enhance analysis. The process here will attempt to do the same. A Chi square test of independence/dependence has been performed on each cross-tabulation in order to determine if a relationship exists between the responses to the compared statements.

Table 32 compares the frequency of responses to Statements Two and Three in Part Two.

TABLE 32

COMPARISON OF FREQUENCY OF RESPONSES
TO STATEMENTS ONE AND THREE IN PART TWO

(Statement #1)

RECOSSION RECORDED RECORDED DE DESCRIPTO DE DESCRIPTO DE PROPERTO DE PROPERTO

	(Statement #3)						
	Agree	Disagree					
No Response	3	2					
Agree	65	78					
Disagree	2	6					

Chi square = 1.75

Significance = 0.414

No strength of relationship exists between the choice of response to Statement One and the choice of response to Statement Three. Physicians answered Statement Three independently of their response to Statement One. There is no relationship between their recognition of different levels of educational preparation and their perception of the need to delegate responsibility to nurses based on academic preparation.

Table 33 compares the frequency of responses to Statements Six and Seven in Part Two.

TABLE 33

COMPARISON OF FREQUENCY OF RESPONSES
TO STATEMENTS SIX AND SEVEN IN PART TWO

(Statement #7)
Agree Disagree

No Response 8 0

(Statement #6)
Agree 122 3

Disagree 19 14

Chi square = 10.58

Significance = 0.005

Statistical analysis confirms a relationship exists between the choice of response to Statement Six and choice of response to Statement Seven. Physicians who tended to agree that nurses are taught the theoretical aspects of pathophysiology also agreed that nurses are not merely technicians.

Table 34 compares the frequency of responses to Statements Five and Eight in Part Two.

TABLE 34 COMPARISON OF FREQUENCY OF RESPONSES TO STATEMENTS FIVE AND EIGHT IN PART TWO

(Statement #8)

No Response Disagree Agree No Response 0 1 0 (Statement #5) Agree 1 128 Disagree 1 19 2

Chi square = 4.18

Significance = 0.3817

There is no established relationship between the choice responses to Statement Five and the response selected for Statement Eight. Whether or not a physician felt recommendations should be solicited from nurses had no bearing on whether he/she felt it was appropriate for nurses to question a physician's choice of treatment.

Table 35 compares the frequency of responses to Statements Three and Six in Part Three.

TABLE 35

COMPARISON OF FREQUENCY OF RESPONSES
TO STATEMENTS THREE AND SIX IN PART THREE

	(Statement #6)								
Statement #3)	NO RESPONSE	STRONGLY DISAGREE	DISAGREE	NEUTRAL	AGREE	STRONGLY AGREE			
NO RESPONSE	0	0	0	0	2	1			
STRONGLY DISAGREE	0	0	1	0	1	2			
DISAGREE	0	0	3	1	5	3			
NEUTRAL	0	0	1	7	4	6			
AGREE	0	0	1	7	29	23			
STRONGLY AGREE	1	1	7	1	זו	44			

Chi square = 61.18

Significance = 0.0001

Statistical analysis indicates a strong relationship between physicians' agreement that their working relationship with nurses is a critical factor in patient care and their agreement that the observations and suggestions of professional nurses play an important role in the treatment interventions initiated by physicians.

Table 36 compares the frequency of responses to Statement Five in Part Two and Statement Three in Part Three.

TABLE 36

COMPARISON OF FREQUENCY OF RESPONSES TO STATEMENT FIVE IN PART TWO AND STATEMENT THREE IN PART THREE

(Statement #3)

(Statement #5)	NO RESPONSE	STRONGLY DISAGREE	DISAGREE	NEUTRAL	AGREE	STRONGLY AGREE
NO RESPONSE	0	0	0	0	1	0
AGREE	1	2	9	12	54	55
DISAGREE	2	2	3	6	5	4

Chi square = 23.52

Significance = 0.009

Statistical analysis confirms a relationship between responses to Statement Five in Part Two and Statement Three in Part Three. Physicians who agree or disagree that the observations and suggestions of professional nurses play an important tole in patient care, would respond similarly when queried as to the value of recommendations from nurses with regard to a patient's treatment regime.

Table 37 compares the frequency of responses to Statement Eight in Part Two and Statement Three in Part Three.

TABLE 37

COMPARISON OF FREQUENCY OF RESPONSES TO STATEMENT EIGHT IN PART TWO AND STATEMENT THREE IN PART THREE

(Statement #3)

(Statement #8)	NO RESPONSE	STRONGLY DISAGREE	DISAGREE	NEUTRAL	AGREE	STRONGLY AGREE
NO RESPONSE	1	0	0	0	0	1
AGREE	2	3	10	18	59	56
DISAGREE	0	1	2	0	1	2

Chi Square = 37.39

Significance = 0.00

Statistical analysis reveals a strong relationship between choice of response to these two statements. Physicians tend to share the same perceptions with regard to the value of a nurse's observations and the appropriateness of questioning a physician's treatment regime.

Table 38 compares the frequency of responses to Statement Five in Part Two and Statement Twelve in Part Three.

TABLE 38

COMPARISON OF FREQUENCY OF RESPONSES TO STATEMENT FIVE IN PART TWO AND STATEMENT TWELVE IN PART THREE

(Statement #12)

(Statement #5)	NO RESPONSE	STRONGLY DISAGREE	DISAGREE	NEUTRAL	AGREE	STRONGLY AGREE
NO RESPONSE	0	1	0	0	0	0
AGREE	3	4	16	21	53	36
DISAGREE	0	0	2	9	8	3

Chi square = 39.18

Significance = 0.00

The Chi square test of independence indicates a strong relationship between the responses to Statement Five in Part Two and Statement Twelve in Part Three. The null hypothesis is rejected for there is a dependence between perceptions agreeing recommendations should be solicited and perceptions that the expertise of the nurse is valuable to the delivery of patient care by physicians.

Table 39 compares the frequency of responses to Statement Four in Part Two and Statement Four in Part Three.

TABLE 39

COMPARISON OF FREQUENCY OF RESPONSES TO STATEMENT FOUR IN PART TWO AND STATEMENT FOUR IN PART THREE

(Statement #4, Part Three)

(Statement #4, Part Two)	NO RESPONSE	STRONGLY DISAGREE	DISAGREE	NEUTRAL	AGREE	STRONGLY AGREE
NO RESPONSE	0	0	0	4	3	0
AGREE	0	0	4	16	31	14
DISAGREE	3	3	18	30	23	7

Chi square = 25.03

Significance = 0.0053

Statistical analysis indicates a strong relationship exists between responses to Statement Four in Part Two and responses to Statement Four in Part Three. The null hypothesis is rejected and dependence is established. Respondents may be expected to perceive the clinical and managerial training of Baccalaureate nurses in the same light as they perceive the assumption of these roles by professional nurses.

Table 40 compares the frequency of responses to Statements Five and Twenty in Part Three.

TABLE 40

COMPARISON OF FREQUENCY OF RESPONSES TO STATEMENTS FIVE AND TWENTY IN PART THREE

(Statement #20)

(Statement #20)							
(Statement #5)	NO RESPONSE	STRONGLY DISAGREE	DISAGREE	NEUTRAL	AGREE	STRONGLY AGREE	
NO RESPONSE	ı	0	0	0	0	ī	
STRONGLY DISAGREE	0	4	0	3	0	0	
DISAGREE	0	4	4	3	0	0	
NEUTRAL	2	2	4	16	6	1	
AGREE	0	1	5	20	17	3	
STRONGLY AGREE	2	2	2	14	21	18	

Chi square = 97.5?

Significance = 0.00

Statistical analysis confirms a dependence between responses to Statement Five and Statement Twenty. Physicians' reactions to elevating the position of the Chief Nurse will be dependent upon their perceptions of the Chief Nurse's membership on the Executive Committee.

Table 41 compares the frequency of responses to Statement Six and Statement Twelve in Part Three.

COMPARISON OF FREQUENCY OF RESPONSES
TO STATEMENTS SIX AND TWELVE IN PART THREE

TABLE 41

(Statement #12)

(3Catement #12)							
(Statement #6	NO RESPONSE	STRONGLY DISAGREE	DISAGREE	NEUTRAL	AGREE	STRONGLY AGREE	
NO RESPONSE	1	0	0	0	0	0	
STRONGLY DISAGREE	0	0	0	0	1	0	
DISAGREE	0	2	1	2	2	0	
NEUTRAL	0	0	4	6	4	2	
AGREE	0	0	7	13	26	6	
STRONGLY AGREE	2	3	6	9	28	31	

Chi square = 96.56

Significance = 0.00

Based upon statistical analysis, the null hypothesis is rejected and dependence of responses is acknowledged. Perceptions of the value of the expertise of the professional nurse are related to the perceptions of the criticality of the working relationship physicians maintain with nurses.

Table 42 compares the frequency of responses to Statements Eight and Eighteen in Part Three.

TABLE 42

COMPARISON OF FREQUENCY OF RESPONSES TO STATEMENTS EIGHT AND EIGHTEEN IN PART THREE

(Statement #18)

			(Statemen	10 //		
(Statement #8)	NO RESPONSE	STRONGLY DISAGREE	DISAGREE	NEUTRAL	AGREE	STRONGLY AGREE
NO RESPONSE	0	o	1	0	0	0
STRONGLY DISAGREE	0	1	2	3	4	3
DISAGREE	1	7	2	8	14	2
NEUTRAL	1	0	3	12	12	3
AGREE	0	2	11	15	23	3
STRONGLY AGREE	0	4	9	7	6	3

Chi Square = 29.26

Significance = 0.25

Statistical analysis indicates acceptance of the null hypothesis: there is no established relationship between the responses to these two statements. Whether physicians feel they understand what a professional nurse does has no relationship to their responses of agreement or disagreement with the professional recognition nurses have achieved.

Table 43 compares the frequency of responses to Statements Eight and Fourteen in Part Three.

TABLE 43

COMPARISON OF FREQUENCY OF RESPONSES
TO STATEMENTS EIGHT AND FOURTEEN IN PART THREE

(Statement #14)

1 			(O da demer	· · · · /		
(Statement #8)	NO RESPONSE	STRONGLY DISAGREE	DISAGREE	NEUTRAL	AGREE	STRONGLY AGREE
NO RESPONSE	1	0	0	0	0	0
STRONGLY DISAGREE	0	6	1	5	0	1
DISAGREE	0	1	11	10	4	2
NEUTRAL	0	1	4	10	14	2
AGREE	0	2	7	13	24	8
STRONGLY AGREE	0	1	2	4	9	13

Chi square = 231.45

Significance = 0.00

Statistical analysis indicates a very strong relationship between responses to Statement Eight and responses to Statement Fourteen. A dependent relationship exists between physicians' agreement/disagreement on the issues of nurses' recognition and the adequacy of salaries and status.

Table 44 compares the frequency of responses to Statements Eight and Ten in Part Three.

TABLE 44

COMPARISON OF FREQUENCY OF RESPONSES
TO STATEMENTS EIGHT AND TEN IN PART THREE

(Statement #10)

(Statement #8)	NO RESPONSE	STRONGLY DISAGREE	DISAGREE	NEUTRAL	AGREE	STRONGLY AGREE
NO RESPONSE	0	0	0	1	0	0
STRONGLY DISAGREE	1	4	2	2	3	1
DISAGREE	1	0	3	3	19	2
NEUTRAL	0	0	4	12	12	3
AGREE	2	0	12	9	26	5
STRONGLY AGREE	0	1	3	3	6	16

Chi square = 91.83

Significance = 0.00

Statistical analysis indicates that there is a strong relationship between the responses selected for Statement Eight and those chosen for Statement Ten. Physicians' perceptions of the appropriateness of professional independence would be dependent upon their perceptions of the professional recognition they felt nurses had achieved.

Table 45 compares the frequency of responses to Statements Nine and Ten in Part Three.

COMPARISON OF FREQUENCY OF RESPONSES
TO STATEMENTS NINE AND TEN IN PART THREE

TABLE 45

(Statement #10)

(Statement #9)	NO RESPONSE	STRONGLY DISAGREE	DISAGREE	NEUTRAL	AGREE	STRONGLY AGREE
NO RESPONSE	2	0	0	1	1	0
STRONGLY DISAGREE	0	2	3	1	2	0
DISAGREE	1	1	11	3	7	0
NEUTRAL]	1	5	15	6	2
AGREE	0	1	4	9	47	3
STRONGLY AGREE	0	0	1	1	3	22

Chi Square = 200.19

Significance = 0.00

Statistical analysis reveals a strong dependence (relationship) between responses to Statements Nine and Ten. Perceptions of the appropriateness of the professional independence permitted would be dependent upon the perceived amount of independence which is permitted or required.

Table 46 compares the frequency of responses to Statements Twelve and Thirteen in Part Three.

TABLE 46

COMPARISON OF FREQUENCY OF RESPONSES TO STATEMENTS TWELVE AND THIRTEEN IN PART THREE

(Statement #13)

(Statement #12)	NO RESPONSE	STRONGLY DISAGREE	DISAGREE	NEUTRAL	AGREE	STRONGLY AGREE
NO RESPONSE	0	0	0	1	0	2
STRONGLY DISAGREE	0	3	1	0	0	1
DISAGREE	0	1	5	6	5	1
NEUTRAL	0	1	0	10	15	4
AGREE	0	1	1	7	36	16
STRONGLY AGREE	0	0	2	0	12	25

Chi square = 113.93

Significance = 0.00

Again, statistical analysis reveals a strong relationship between responses to Statements Twelve and Thirteen. Perceptions of the assistance nurses provide in critical situations would be dependent upon the perceived value of the expertise of professional nurses to the delivery of patient care.

Table 47 compares the frequency of responses to Statement Thirteen in Part Three and Statement Nine in Part Two.

TABLE 47

COMPARISON OF FREQUENCY OF RESPONSES TO STATEMENT THIRTEEN IN PART THREE AND STATEMENT NINE IN PART TWO

(Statement #9, Part Two)

(Statement #13, Part Three)	NO RESPONSE	AGREE	DISAGREE
NO RESPONSE	0	0	0
STRONGLY DISAGREE	0	3	3
DISAGREE	1	3	5
NEUTRAL	2	15	7
AGREE	5	55	8
STRONGLY AGREE	1	38	10

Chi square = 16.96

Significance = 0.030

A Chi square test of independence for these two statements rejects the null hypothesis, there is a relationship between responses to Statement Thirteen in Part Three and Statement Nine in Part Two. The perceived assistance a nurse provides in a crisis situation does have a relationship with the perception of the nurse as a "handmaiden" or a "colleague."

The cross-tabulations which have been presented indicate that there are strong relationships between responses to the majority of

statements selected for comparison. The exceptions are found in areas where education and position of the nurse surface. Perceptions of the assistance the nurse provides in crisis will have no bearing on the physicians' perception of the nurse as a handmaiden or a colleague. Whether a physician agreed or disagreed that recommendations should be solicited from nurses, there is no relationship with his/her agreement or disagreement that nurses should appropriately question physician orders. Finally, regardless of physicians' perceptions of clinical preparation at the Baccalaureate level, there is no relationship in perceptions of the need to delegate responsibility based on academic preparation.

Variances in Physician Perceptions

A previously stated objective of this research effort was to determine variances in physicians' perceptions based upon demographic data, e.g., position, specialty, age, years in service and civilian experience. The initial display of responses to the survey statements provided the variances between staff physicians, residents and interns and the perceptions of each group. The Chi square tests of independence/dependence, which were calculated for each statement, indicated whether or not there was a relationship (dependence) between a physician's position and the elected response. Cross-tabulations of other demographic data, e.g., age, years in service and civilian experience, indicated a strong

relationship existed between a physician's age and his position; a physician's experience in the civilian community and his position; and, the number of years a physician had in service and his position.

The majority of staff physicians, 38%, responding to the survey are 36-40 years of age and 60% are between the ages of 31 and 40. Of the residents who responded to the survey, 58% are 30 years of age or younger and 94% are 35 years of age or younger. Interns, 77%, were under 30 years of age. Statistical analysis revealed that a strong relationship existed between a physician's age and his position: Chi square = 97.39 and significance = 0.00. Based on this dependence, responses were not related separately by age groups. There would be no expected deviance in responses based on age groups, rather the responses would tend to reflect the same trends as those presented by position. The same holds true for the variables of years in service and civilian experience. Sixty-four percent of all staff physicians had at least seven years in service, 65% of all residents and interns had less than four years in service. A Chi square of 71.9 and significance of 0.00 establishes the strength of this relationship. Finally, 48% of all staff physicians had some civilian experience, while 78% of the residents and 100% of the interns had no civilian experience. A Chi square of 32.41 and significance of 0.00 attests to the strength of the relationship between civilian experience and physician positions.

Statistical analysis did reveal some variances in responses based upon a physician's specialty. Those statements which elicited responses with a strong relationship (dependence) to specialty are provided below. Responses to the given statements are plotted on a frequency distribution. The horizontal axis represents the various specialties by code number. Refer to Appendix C for code interpretation. The vertical axis reflects the frequency or number of responses to the statement. The histogram further identifies the type of response within each specialty group. Refer to Appendix D for statistical tests.

Responses to Statement Eight in Part Two are plotted on a frequency distribution presented in Figure 2.

With the exception of Obstetricians and Surgeons, all other specialties agreed that it is appropriate for a nurse to question a physician's choice of treatment. Obstetricians expressed the most negative response to this statement with 28% disagreeing. The reasons for this phenomenon may only be conjectured. Perhaps the unique and highly specialized elements of this specialty account, in part, for this response.

Responses to Statement One in Part Three are plotted on a frequency distribution presented in Figure 3.

Physicians were asked if they agreed or disagreed that the professional nurse is prepared to make independent, clinical assessments of a patient's medical status. Pediatricians, Family Practitioners, Medicine

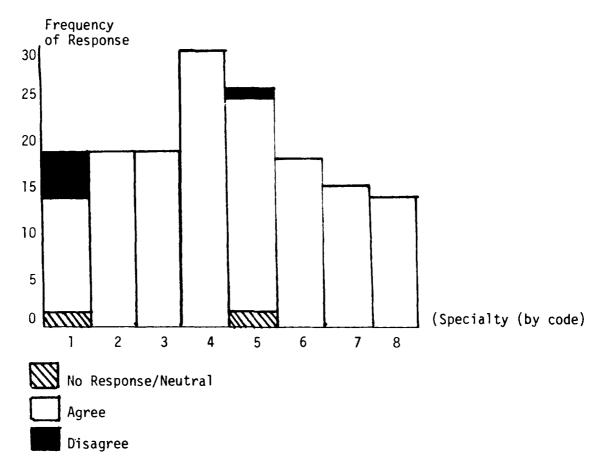


Fig. 2--Frequency Distribution of Responses, by Specialty, to Statement Eight in Part II

SESSES COSSES BURGES BYRYAN AND AND THE GOVERN SERVING SUNDAY.

and interns responded most positively to the statement with 72%, 72%, 62% and 71% respectively choosing to agree. This may be a function of the fact that nurse clinicians and practitioners have been functionally active in these specialties, thus evoking positive attitudes toward independent nursing practice. In contrast, surgeons and obstetricians responded negatively with 56% of the obstetricians disagreeing and only

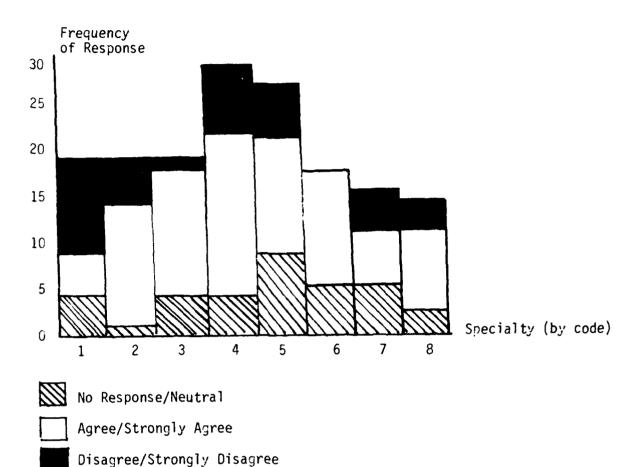
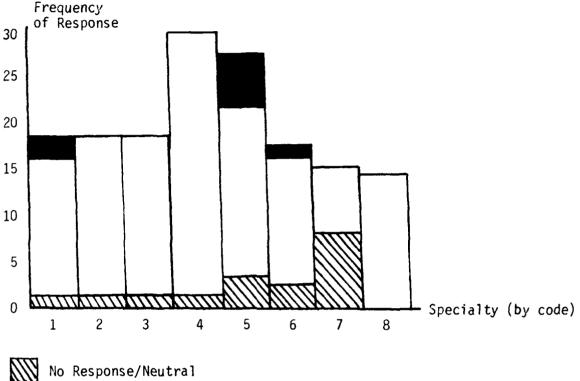


Fig. 3--Frequency Distribution of Responses, By Specialty, to Statement One in Part Three

48% of the surgeons agreeing with the statement. By nature of their specialty, surgeons traditionally would not rely on nursing input in the surgical process.

Responses to Statement Six in Part Three are plotted on a frequency distribution presented in Figure 4.

Statement Six asked physicians if they felt their working relationship with nurses was a critical factor in patient care. In the aggregate



Agree/Strongly Agree
Disagree/Strongly Disagree

Fig. 4--Frequency Distribution of Responses, by Specialty, to Statement Six in Part Three

the response was extremely positive. Only three specialty groups evidenced disagreement. These were: Obstetricians (11%), Surgeons (16%), and Interns (5%). Pathologists and Radiologists chose neutral responses 46% of the time. This is undoubtedly due to the fact that they do not interact with nurses on a daily basis. Again, Surgeons expressed the most negative responses. It is presumed this is a function of the independence they perceive in their own specialty.

Responses to Statement Ten in Part Three are plotted on a frequency distribution presented in Figure 5.

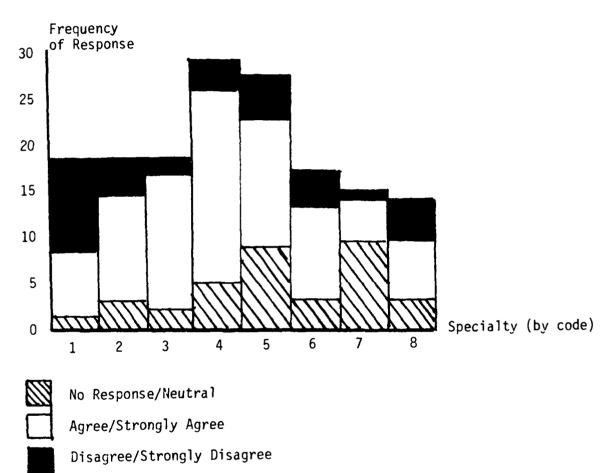


Fig. 5--Frequency Distribution of Responses, by Specialty, to Statement Ten in Part Three

Statement Ten asks physicians to indicate whether they agree or disagree with the professional independence permitted of nurses. The most positive responses are from Family Practitioners (67%), Pediatricians (83%), and medicine (72%), who agree with the statement. Obstetricians gave the most negative responses with 50% disagreeing.

Pathologists and Radiologists were the most ambiguous with 60% selecting neutral responses. Lack of interaction with nurses, by virtue of their specialties, would account for this. Surgeons followed Pathologists and Radiologists with 32% indicating they were unsure or neutral. This is consistent with the trends previously noted in responses given by Surgeons. There is a subtle inference that they do not interact with nor depend upon nursing personnel to the same degree as other specialties.

Responses to Statement Fifteen in Part Three are plotted on a frequency distribution presented in Figure 6.

Statement Fifteen addressed the teamwork physicians perceive between themselves and nurses. The greatest amount of teamwork was perceived by Pediatricians, Medicine, Interns and physicians in the category of "other". The least amount of teamwork was perceived by Obstetricians and Family Practitoners. Surgeons (24%) were neutral or unsure, perhaps indicating a certain insensitivity to the issue.

Responses to Statement Seventeen in Part Three are plotted on a frequency distribution presented in Figure 7.

Statement Seventeen asks physicians to indicate whether they believe nurses should have the opportunity to participate in the clinical
decision-making process. The most positive responses, those agreeing
with participation, were indicated by Pediatricians (89%), Medicine
(76%), Interns (82%) and physicians in the category of "other" (79%).
The most negative responses, those who disagreed with the statement,

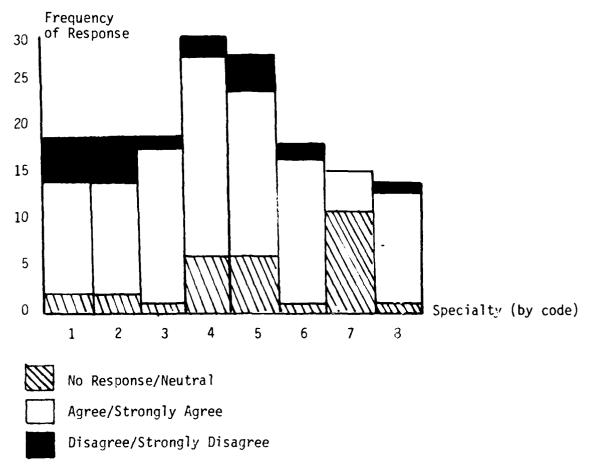


Fig. 6--Frequency Distribution of Responses, by Specialty, to Statement Fifteen in Part Three

were given by Obstetricians (44%) and Pathologists and Radiologists (47%). The responses of Pathologists and Radiologists are tempered by the fact that their practice provides minimal interface with the nursing personnel. It is still interesting to note the negativism which pervades their responses. Obstetricians continue to evidence a disapproving attitude. It is difficult to submit valid theories for this phenomenon.

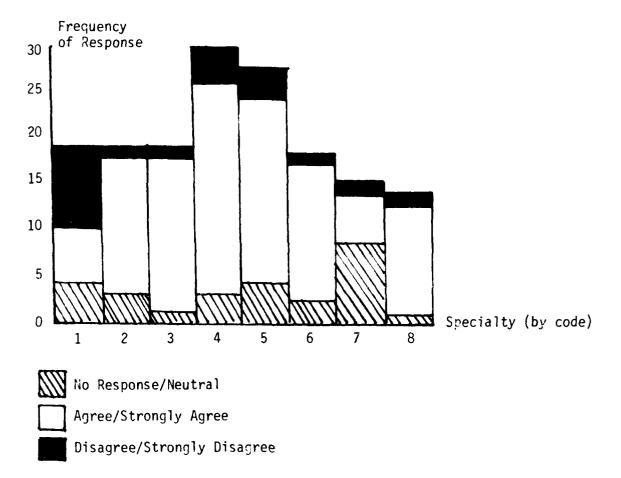
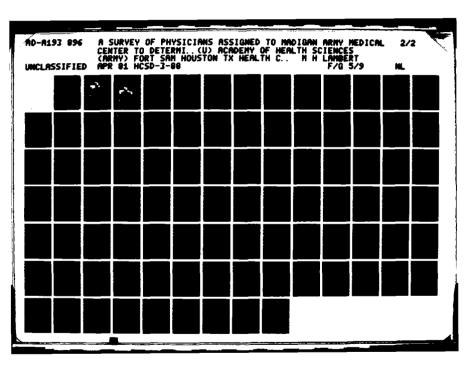
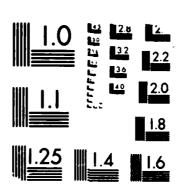


Fig. 7--Frequency Distribution of Responses, by Specialty, to Statement Seventeen in Part Three

Responses to Statement Eighteen in Part Three are plotted on a frequency distribution presented in Figure 8.

Statement Eighteen asks physicians to indicate whether they believe they understand and appreciate what the professional nursing staff does. The highest percentage of positive responses were from physicians in Medicine (62%), physicians categorized as "other" (64%). Interns (59%), and Surgeons (52%). It is interesting to note that physician groups





MICROCOPY RESOLUTION TEST CHART

. .

- -

WOMEN STORY

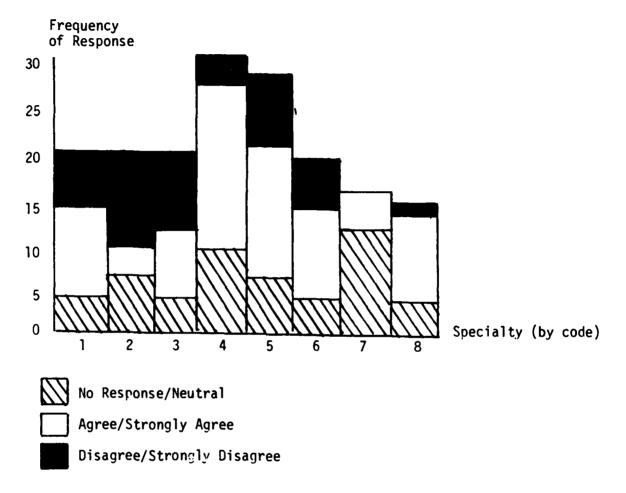


Fig. 8--Frequency Distribution of Responses, by Specialty to Statement Eighteen in Part Three

who have displayed more positive responses to previous statements now indicate they do not feel they fully understand or appreciate what the professional nursing staff does. The groups who feel they do not understand are: Family Practitioners (50%) and Pediatricians (38%). Those physician groups which have consistently responded positively now respond that they don't feel they adequately appreciate or understand what nurses

do. The "delicate" inference is that these physicians may be more receptive to the expanding role of the professional nurse.

Responses to Statement Nineteen in Part Three are plotted on a frequency distribution presented in Figure 9.

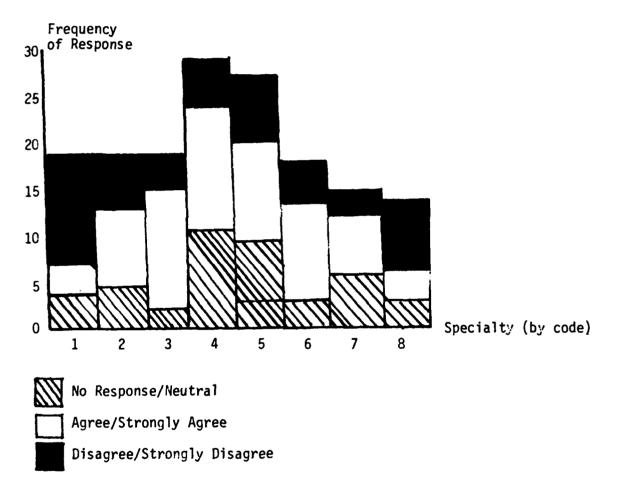


Fig. 9--Frequency Distribution of Responses, by Specialty, to Statement Nineteen in Part Three

Statement Nineteen asks physicians to indicate whether they agree or disagree that nurses should be able to rely on physicians to support their decisions. Groups that agree most strongly were: Pediatricians

(72%) and Interns (59%). Those who disagreed most strongly were:
Obstetricians (61%) and physicians in the category of "other" (50%).
Neutral responses were predominant among Medicine (40%), and Radiologists and Pathologists. No specific conclusions or inferences are drawn with regard to these responses other than to comment on the trends which have been established within certain groups. As previously mentioned, Obstetricians and Surgeons responded negatively with greater frequency than other groups. Pediatricians, Family Practitioners, Medicine and Interns responded more positively to statements with greater frequency than other specialty groups.

This concludes the presentation and analysis of the survey data. Given the established trends, physician commentaries and the positive versus negative indicators, the task ahead embraces a veritable challenge: to discern the potential interface of physician perceptions with the nursing crisis.

THE PERSON NAMED OF STREET STREET, STR

CHAPTER III

CONCLUSION

It has been the intent of this research effort to provide a descriptive analysis of physician perceptions of professional nursing in order to gain further insight into the validities of nurses' proclaimed sources of disillusionment. There is little doubt that these sources of disenchantment have been primary catalysts of the nursing crisis to which the health care industry is both witness and victim.

One major factor which has surfaced from this research is that the vast majority of physicians (94%) recognized that there are inherent differences in the three educational programs which culminate in the nursing students' eligibility to apply for licensure as a registered nurse. The critical point, however, is that despite the intellectual admission of the philosophical variances, physicians perceive relatively few differences in the functional potentials of nurses from different programs. This was evidenced in the variances reflected in responses to statements which reference Baccalaureate Nurses versus professional nurses. There is an apparent reticence to indicate that Baccalaureate nurses function with a greater degree of proficiency or expertise than do Diploma or Associate Degree Nurses. Indeed, beyond the survey responses, physicians frequently commented that "nurses should not be judged on the basis of educational preparation." Many indicated that they had worked with Diploma Nurses and nurses' aides who practiced the art of nursing with greater skill than some Baccalaureate Nurses.

It was also apparent from survey responses and comments that physicians do not necessarily equate the word 'professional' with the Baccalaureate Nurse. It is important to note that these perceptions pervaded the responses from all physicians, with little or no relationship to position, specialty, age or length of service. Further, the majority of physicians (57%) do not feel that the responsibility a nurse assumes should necessarily be correlated with his/her level of education. It would appear that professional nursing organizations have made tremendous efforts to redefine the scope of practice for nurses trained at the various academic levels; however, it is also apparent that physicians either do not perceive a necessity to redefine roles or they are simply not convinced that the redefinition has produced functional results. It is proposed that the failure of other health care providers to identify the impact that nursing education has had is a major contributory cause for nurses' dissatisfaction in their profession. It is simply no longer feasible nor rational to employ a registered nurse and expect that he/she will be able to function adequately in any clinical area or in any clinical position. A review of the different preparatory programs for the professional nurse bears witness to this fact. The fact remains, however, that physicians would tend to prefer a nurse in the traditional sense of the word rather than to deal with the innovations, expansions and changes which the physicians perceive as a questionable necessity. In essence, nurses are now educated and sensitized to roles and expectations

which are incongruent with those of the professionals with whom they will be most intimately involved: The physicians!

A second issue which was discerned from the survey data is that of the perception of the nurse as a "handmaiden" versus a "colleague." Physicians consistently indicated that they valued the nurses' contribution to the patient care process. Very positive responses were given with respect to the recommendations and observations of nurses, their application of theoretical knowledge, the criticality of the working relationship between physicians and nurses, and nursing support in critical situations. Conversely, responses were significantly less positive with regard to nurses' participation in the clinical decisionmaking process, independent clinical assessments by nurses, and the achievement of deserved professional recognition for nurses. Although a simple majority (73%) of physicians indicated that the term 'colleague' was more appropriate than that of 'handmaiden', numerous surveys qualified this choice. One physician commented on "the good old days when nurses stood up if a physician entered the room." Another asked, "What ever happened to 'mother and apple pie."

ASSA - PARAMA - COSSOSA - POSSOSA - PARAMA - PAR

It is evident that there continues to be a good deal of nostalgia among physicians about the value of the nurse of the past who gave such excellent bedside care and who asked so little for himself/herself. Coupled with the nostalgia is a resistance to face the fact that as health care delivery has changed, so has one of its integral components,

nursing. Physicians seem to be genuinely puzzled, albeit angry, that nurses are making such "inappropriate" demands. Their perception may be simply stated that education is fine, nurses and their contributions are valuable and necessarily vital, but a nurse is just a nurse, not a doctor. There is an apparent inability to recognize the practice of nursing on a professional level, not to be confused with the practice of medicine. Demands for salary increases, position, status and respect as professionals are not necessarily an encroachment on the physicians' turf although this appears to be the perception.

In the final analysis, has not the nursing profession fallen short in its own efforts? Poor delineation of roles, misunderstood education policies and inadequate communication efforts with other health care providers has undoubtedly contributed to the physicians' confusion and wariness with respect to the expanded role of the "new" nursing professionals. Two very significant processes are ongoing in this milieu: (1) the socialization process of the physician and (2) the socialization process of the nurse. At this point in time, the two appear to be incongruent. Physician education as to appropriate expectations of nurses, based on their education, would most probably provide a different frame of reference, thus facilitating a fundamental understanding of the issues. Understanding founded on factual knowledge often enhances resolution of disputed issues.

It is also evident that in order to resolve problems of misutilization and to align expectations appropriately, legislation of nursing practice is an absolute necessity. Currently, nurses from all three programs are employed without respect to education. This practice adds immeasurable confusion and turmoil to an already turbulent situation. Physicians will identify with staff nurses as staff nurses and head nurses as head nurses, etc. Their expectations and perceptions will necessarily be a product of the role the nurse is assigned to. It is not reasonable to expect that the physician, or anyone else, will first ask if the nurse is a Diploma staff nurse or a Baccalaureate staff nurse. It appears we hold to a strong belief in the "all-purpose" Nurse: the nurse who can handle any situation, improvise and take over in any clinical crisis. This belief in the all-purpose nurse obscures our thinking about the idea that there could be some nurses who do some things and not others, and some nurses who do both! Technological impacts and the era of specialization have taken their toll on the nursing profession. Nursing has outgrown the all-purpose nurse and there are now compelling reasons for making distinctions between technical performance and professional performance. If the graduates of different types of nursing programs have different competencies, and if patients are to receive the best possible care, each nurse then should be allowed to do what he or she has been prepared to do. Distinctions are needed to enable students to project which program will better suit their own abilities and expectations; employers need distinctions because they are charged with providing high quality of care; and finally, nurses need distinctions, for job satisfaction is to a certain degree dependent upon the chance to perform those duties for which one has the talents and the skills.

Although physician responses to this survey, in many instances, supported and validated the disillusionment and complaints of nurses, it would appear that resolution will to some extent depend upon legislation which will require role distinctions for graduates of different educational programs. This forced role distinction coupled with intense physician education would do much toward achieving an alteration of physicians' perceptions.

Time is the third component which may be expected to impact on physicians' perceptions. As the distinct roles of nurses evolve, and their contributions and status in health care delivery develop, there is the expectation that physicians will perceive the value of the unique contribution each type of nurse will make to the health care team. Indeed, as the practice of nursing evolves there should be a diminishing perception that nursing seeks to enter into the realm of medical practice. In actuality, nursing is seeking a new level of professional development in an effort to provide the highest quality of patient care from a nursing prospective.

The challenge to this effort rests in educating physicians and other providers with respect to the contributions nursing is able to

make, the education and dedication which makes those contributions possible, and the capabilities, skill and expertise which comparise the contributions.

FOOTNOTES

- ¹Maryann F. Fralic, R.N., "Nursing Shortage: Coping Today and Planning for Tomorrow," <u>Hospitals</u> (May 1, 1980), p. 65.
- ²Brent Nielsen, R.N., "Agencies Fill A Need But Are Not The Answer," <u>Hospitals</u> (March 16, 1981), p. 66.
 - ³Ibid.
 - ⁴Lynn Donovan, "The Shortage," <u>RN</u> (June 1980), p. 26.
- ⁵American Nurses Association, <u>Facts About Nursing</u>, '76-'77 (Kansas City, Missouri: American Nurses Association, 1977), p. 52.
 - ⁶Lynn Donovan, "The Shortage," <u>RN</u> (June 1980), p. 26.
- ⁷Suzanne LaViolette, "What Does it Take to Stem Turnover, Flight From Field?," Modern Health Care (May 1980), p. 31.
 - 8_{Ibid.}
- ⁹Charles H. White, Ph. D., "Where Have All the Nurses Gone -- And Why?," Hospitals (May 1, 1980), p. 69.

descriptions of the contraction of the contraction

- ¹⁰Suzanne LaViolette, "What Does it Take to Stem Turnover, Flight From Field?," <u>Modern Health Care</u> (May 1980), p. 31.
- Charles H. White, Ph. D., "Where Have All the Nurses Gone -- And Why?," Hospitals (May 1, 1980), p. 69.
 - 12_{Ibid}.
- 13 California Post-Secondary Education Commission. A Health Sciences Education Plan for California: 1979-1980. (California: California Post-Secondary Education Commission, 1979).
- 14 E. W. Brody. "Are Nurses' Objectives Achievable -- At What Costs and Who Will Pay?" Modern Health Care (October, 1980), p. 116.
- ¹⁵Paula L. Stamps, et al, "Measurement of Work Satisfaction Among Health Professionals," <u>Medical Care</u> (April, 1978), p. 337.
- ¹⁶Dinah B. Slavitt, et al, "Nurses Satisfaction With Their Work Situation," Nursing Research (March-April 1978), p. 114.

- 17 Hurka, Slavek J., "Need Satisfaction Among Health Care Managers," Hospital and Health Services Administration (Summer, 1980), p. 43.
- ¹⁸Dinah B. Slavitt, et al, "Nurses' Satisfaction With Their Work Situation," Nursing Research (March-April 1978), p. 114.
- Paula L. Stamps, Ph. D., et al, "Measurement of Work Satisfaction Among Health Professionals," <u>Medical Care</u> (April, 1978), p. 339.
- ²⁰Glennadee A. Nichols, "Job Satisfaction and Nurses' Intentions to Remain With or to Leave an Organization," <u>Nursing Research</u> (May-June 1971), p. 218.
- ²¹Council of Baccalaureate and Higher Degree Programs, Report of the Council, Entry Into Professional Nursing Practice (New York: National League for Nursing, Fall, 1979), p. 6.
- ²²Ann A. Bliss and Eva D. Cohen, <u>The New Health Professionals</u> (Germantown, MD.: Aspen Systems Corporation, 1977), p. 12.
- 23 National League for Nursing, Task Force, Working Paper on the Competencies of Graduates of Nursing Programs (New York: National League for Nursing, April, 1979), p. 3.

ACCOMPANIAN MATERIA MATERIA PATAMA MATERIA MATERIA SPECIAL PROPERTO POSSONO PATAMA PATAMA PATAMA PATAMA PATAMA

24United States Army Health Services Command, HSC Pamphlet 40-1: Committees, Boards and Functions (Fort Sam Houston, Texas, January 1979), p. 2-1.

APPENDIX A

DEFINITION OF TERMS

DEFINITION OF TERMS

Nursing Shortage

The inadequate supply of registered nurses available and willing to accept employment in institutional settings under prevailing conditions.

Professional Nurse

A Registered Nurse who is, at least, a graduate of a four year program in Nursing, resulting in the conferring of a Bachelor of Science Degree in Nursing.

Executive Level Position

Department chief or higher.

Associate Degree Nurse

Registered Nurse who is a graduate of a two year program in nursing.

Diploma Nurse

Registered Nurse who is a graduate of a hospital-based three year program in

Nursing.

Technical Nurse

Registered Nurse who is a graduate of an Associate Degree Program in Nursing

APPENDIX B

DATA COLLECTION TOOL

\$5555 \$55555 \tag{ \tag{



DEPARTMENT OF THE ARMY HEADQUARTERS MADIGAN ARMY MEDICAL CENTER TACOMA, WASHINGTON 98431

AFZH-MD-EX

16 March 1981

SUBJECT:

Research Study -- Physicians' Perceptions of the Role of the

Professional Nurse

T0:

All MAMC Military Physicians

1. As a student in the U.S. Army-Baylor University Program in Health Care Administration, I am required to submit a research study to fulfill the requirements for my Masters Degree in Hospital Administration.

- 2. The research subject I am pursuing addresses physicians' perceptions of the role of the professional nurse. In order to augment my research I am conducting a survey of all military physicians assigned to MAMC. Your participation in this research endeavor is not only important but essential to the completion of the research project.
- 3. Attached to this letter you will find a questionnaire which I am requesting that you complete and return to me no later than 30 March 1981. All questionnaires may be returned through distribution to MAJ Mary Lambert, Administrative Resident, HQ MAMC.
- 4. The questionnaire is designed to insure the anonymity of each respondent. However, because your reply will be anonymous, I will be unable to monitor those individuals who have not responded. In order to guarantee the success of this research I must rely completely on your cooperation and participation.
- 5. Thank you for your time and efforts and especially for your contribution to my educational endeavors.

l Incl

MARY H. LAMBERT Major, ANC

Administrative Resident

ary Holanbert

PART I

BIOGRAPHICAL DATA

The following information is requested in order to determine variances in perceptions between different groups of physicians.

1.	Date of Birth(Year)
2.	Level of Education
3.	Check the appropriate box: ☐ Staff ☐ Fellow
	Resident Intern
4.	Specialty
5.	Years in Service
6.	Have you worked as a physician in a civilian community? Yes No.
	How long?
7.	In what year did you receive your medical degree?
8.	Sex: Male Female

PART II

QUESTIONNAIRE

INSTRUCTIONS:				veral statement ee with the sta	s. Please indica itement.	te whether
		Example:	-	petter pets tha	n cats.	
			Agree	Dis	agree	
1.	The course programs fo			ith different l	evels of educatio	nal
	Agree			Disagree		
2.					in Nursing are be tient's status.	tter
	Agree			Disagree		
3.				nurse assumes academic prepa	should be directl ration.	y pro-
	Agree			Disagree		
4.	An individu	ual with a s proficier	Baccalaure	eate Degree in e clinical arer	Nursing is traine na as in managemen	d to t positions.
	Agree			Disagree		
5.				ith respect to ered by the phy	a patient's treat ⁄sician.	ment regime
	Agree			Disagree		
6.		ysiology wi	ith actual		caught to integrat nd courses of acti	
	Agree			Disagree		
7.		chnical cap			they must effecti al knowledge in o	
	Agree			Disagree		

PART	ΙI	_	Questionnaire	(Contd)
------	----	---	---------------	---------

	8.	It is appropriate for a nurse to question a physician's choice of treament modalities in cases where the nurse believes the treatment may be detrimental to the patient.					
scope and complexity of academic preparation. The new nurse is more appropriately considered as a colleague rather than handmaiden to the physician. AgreeDisagree 10. Nurses, by virtue of their education, are competent to make clinical assessments and pursue appropriate courses of action in patient care.		Agree	Disagree				
10. Nurses, by virtue of their education, are competent to make clinical assessments and pursue appropriate courses of action in patient care.	9.	scope and complexity appropriately consider	of academic preparation. The new nurse is more	•			
assessments and pursue appropriate courses of action in patient care.		Agree	Disagree				
AgreeDisagree	10.	Nurses, by virtue of assessments and purs	their education, are competent to make clinical se appropriate courses of action in patient care.				
		Agree	Disagree				

PART III

QUESTIONNAIRE

INSTRUCTIONS: Listed below are several statements. Please indicate whether you agree or disagree with the statement.

you agree or arragree with the statement.

Example: Dogs are better pets than cats.

Strongly		Unsure,		Strongly
Agree		Neutral		Disagree
5	4	3	2	1

1. A professional nurse is prepared to make independent, clinical assessments with regard to a patient's medical status.

Strongly		Unsure,	Strongly	
Agree		Neutral	Disagree	
5	Δ	3	2	1

2. Baccalaureate Programs prepare nurses to take independent actions in patient care and/or treatment when emergencies arise.

Strongly Agree		Unsure, Neutral		Strongly Disagree	
5	4	3	2	1	

3. The observations and suggestions of professional nurses play an important part in the treatment and medical interventions initiated by the physician.

Strongly		Unsure,		Strongly	
Agree		Neutral		Disagree	
5	4	3	2	1	

4. Professional nurses are academically prepared to assume progressively more responsible roles in administration as well as in clinical arenas.

Strongly		Unsure,	Strongly	
Agree		Neutral	Disagree	
5	4	3	2	1

5. The Chief, Department of Nursing plays a key role in the medical facility and should be a member of the Executive Committee.

Strongly Agree		Unsure, Neutral		Strongly Disagree	
5	4	3	2	1	

6. My working relationship with professional nurses is a critical factor in patient care.

Strongly Agree		Unsure, Neutral		Strongly Disagree	
5	Δ	3	2	1	

7. Professional nurses should be considered as equal partners on the patient care team.

Strongly		Unsure,		Strongly	
Agree		Neutral		Disagree	
5	4	3	2	1	

8. Nurses have not achieved the professional recognition they deserve.

Strongly		Unsure,		Strongly	
Agree		Neutral		Disagree	
5	4	3	2	1	

9. A great deal of professional independence is permitted, if not required, of the professional nurses with whom I work.

Strongly		Unsure,		Strongly	
Agree		Neutral		Disagree	
Ę.	Λ	3	2	1	

10. I feel that the professional independence permitted is appropriate.

Strongly		Unsure,		Strongly
Agree		Neutral		Disagree
5	4	3	2	1

11. There is not a lot of "rank consciousness" here -- personnel frequently mingle with others of different professions.

Strongly		Unsure,		Strongly	
Agree		Neutral		Disagree	
5	4	3	2	1	

12. The expertise of the professional nurses with whom I work allows me to deliver much better patient care.

Strongly		Unsure,		Strongly	
Agree		Neutral		Disagree	
5	4	3	2	1	

13. The professional nurses don't hesitate to help when situations are critical and/or rushed.

Strongly		Unsure,		Strongly	
Agree		Neutral		Disagree	
5	4	3	2	1	

14. Considering what is expected of professional nurses, the pay they receive and the status they hold is not reasonable.

Strongly		Unsure,		Strongly	
Agree		Neutral		Disagree	
5	4	3	2	1	

15. There is a good deal of teamwork and cooperation between nurses and physicians on my Service.

Strongly Agree		Unsure, Neutral		Strongly Disagree
5	Λ	2	2	1

16. Nurses should have ample opportunity to participate in the administrative decision-making process.

Strongly		Unsure,		Strongly	
Agree		Neutral		Disagree	
5	4	3	2	1	

17. Nurses should have the opportunity to participate in the clinical decision-making processes.

Strongly		Unsure,		Strongly	
Agree		Neutral		Disagree	
5	4	3	2	1	

PART III - Questionnaire (Contd)

18. Physicians at this hospital generally understand and appreciate what the professional nursing staff does.

Strongly Agree		Unsure, Neutral		Strongly Disagree
5	Λ	3	2	1

19. Nurses should have the freedom to make important decisions and be able to count on the physicians to back them up.

Strongly Agree		Unsure, Neutral		Strongly Disagree
5	4	3	2	1

20. Many civilian facilities have elevated the position of Chief, Department of Nursing to an Associate Administrator position. I feel this is appropriate in terms of the unique and expert input this individual provides to the administration of a hospital.

Strongly Agree		Unsure, Neutral		Strongly Disagree
5	4	3	2	1

APPENDIX C

DATA COMPILATION CODES

	110	
DATE COMP	PILATION CODES	
SURVEY PART I	CODE NUMBER	
Variable Dinth.	CODE NOMBER	
Year of Birth:	,	
1951 - After 1946 - 1950	1 2	
1941 - 1945	3	
1936 - 1940	4	
1931 - 1935	5	
1926 - 1930	6	
Physician Position:		
Staff	1	
Resident	2	
Fellow	3	
Intern	4	
Specialty:		
OB/Gyn	1	
Family Practice	2	
Pediatrics	3	
Medicine	4	
Surgery	5	
Interns Pathalogy/Padialogy	6 7	
Pathology/Radiology Other (Psych: Prev Me	7 d:	
Other (Psych; Prev Me Emergency Med)	8	

	CODE NUMBER
Years in Service	
0 - 3	1
4 - 6	2
7 - 9	3
10 - 12	4
13 - 15	5
16 - 18	6
18+	7
Civilian Experience:	
Yes	1
No	2
Sex:	
Male	1
Female	2
SURVEY PART II	
Agree	1
Disagree	2
SURVEY PART III	
No Response	0
Strongly Disagree	1
Disagree	2
Unsure, Neutral	3
Agree	4
Strongly Agree	5



STATISTICAL TESTS ON SURVEY RESULTS

113
STATISTICAL TEST SUMMARY

Test No.	Test	Computed	Critical Value LOS:.05	To Reject
1	Course of Study Variances	4.32 df 6	12.59	
2	Preparation of BSN Nurses	8.90 df 6	12.59	
3	Responsibility vs Academic Training	2.00 df 3	7.81	
4	BSN Management & Clinical Preparation	7.95 df 6	12.59	
5	Recommendations from Nurses	2.11 df 6	12.59	
6	Knowledge of Pathophysiology	13.18 df 6	12.59	Reject H _c
7	Technical vs Theoretical Knowledge	2.05 df 3	7.81	
8	Questioning Treatment Modalities	7.39 df 6	12.59	
9	Handmaiden vs Colleague	9.86 df 6	12.59	
10	Competency to Make Clinical Assessments	8.82 df 6	12.59	
11	Independent Clinical Assessments	25.13 df 15	24.99 LOS:.10 22.3	Reject H _c
12	BSN Preparation to Act Independently	14.26 df 15	24.99	

114
STATISTICAL TEST SUMMARY (Continued)

Test No.	Test	Computed	Critical Value LOS:.05	To Reject
13	Value of Nurses' Suggestions	38.36 df 15	24.99	Reject H _o
14	Assuming Responsible Roles	30.93 df 15	24.99	Reject H _o
15	Chief Nurse on Executive Committee	15.56 df 15	24.99	
16	Nurse-Physician Relationship	12.82 df 15	24.99	
17	Nurses as Equal Partners	18.21 df 15	24.99	
18	Achievement of Professional Recognition	15.10 df 15	24.99	
19	Professional Independence - Permitted	13.40 df 15	24.99	
20	Professional Independence - Appropriate	9.82 df 15	24.99	
21	Interaction With Different Professions	20.35 df 12	21.02 LOS:.10 18.50	Reject H _o
22	Value of Nurses' Expertise	22.66 df 15	24.99 LOS:.10 22.3	Reject H _o
23	Nurse Support in Critical Situations	12.97 df 12	21.02	
24	Pay and Status of Nurses	13.53 df 15	24,99	

115
STATISTICAL TEST SUMMARY (Continued)

Test No.	Test	Computed	Critical Value LOS:.05	To Reject
25	Doctor-Nurse Teamwork	22.99 df 15	24.99	
26	Participation in Administrative Decisions	11.14 df 15	24.99	
27	Participation in Clinical Decisions	10.00 df 15	24.99	
28	Physician Understanding of Nursing Roles	6.67 df 15	24.99	
29	Decisions with Physician Support	15.73 df 15	24.99	
30	Chief Nurse as Associate Adminis- trator	12.16 df 15	24.99	
31	Statement 1 vs Statement 3, Part II	1.75 df 2	5.99	
32	Statement 6 vs Statement 7, Part II	10.58 df 2	5.99	Reject H _o
33	Statement 5 vs Statement 8, Part II	4.18 df 4	9.49	
34	Statement 3 vs Statement 6, Part III	61.18 df 25	37.7	Reject H _o
35	Statement 5, Part II, vs Statement 3, Part III	23.52 df 10	18.3	Reject H _o
36	Statement 8, Part II, vs Statement 3, Part III	37.39 df 10	18.3	Reject H _o

116
STATISTICAL TEST SUMMARY (Continued)

Test No.	Test	Computed	Critical Value LOS:.05	To Reject
37	Statement 5, Part II, vs Statement 12, Part III	39.18 df 10	18.3	Reject H _o
38	Statement 4, Part II vs Statement 4, Part III	25.03 df 10	18.3	Reject H _o
39	Statement 5 vs Statement 20, Part III	97.51 df 25	37.7	Reject H _o
40	Statement 6 vs Statement 12, Part III	96.56 df 25	37.7	Reject H _o
41	Statement 8 vs Statement 18, Part III	29.26 df 25	37.7	
42	Statement 8 vs Statement 14, Part III	231.45 df 25	37.7	Reject H _o
43	Statement 8 vs Statement 10, Part III	91.83 df 25	37.7	Reject H _o
44	Statement 9 vs Statement 10, Part III	200.19 df 25	37.7	Reject H _o
45	Statement 12 vs Statement 13, Part III	1 13 .93 df 20	31.4	Reject H _o
46	Statement 13, Part III, vs Statement 9, Part II	16.96 df 8	15.5	Reject H
47	Physician Position vs Age	97.39 df 18	28.9	Reject H _o
48	Physician Position vs Civilian Experience	32.41 df 9	16.0	Reject H _o

117
STATISTICAL TEST SUMMARY (Continued)

Test No.	Test	Computed	Critical Value LOS:.05	To Reject
49	Physician Position vs Time in Service	71.98 df 21	32.7	Reject H _o
50	Questioning Physician Orders	38.12 df 14	23.7	Reject H _o
51	Independent Clinical Assessments by Nurses	63.68 df 35	49.80	Reject H
52	Nurse-Doctor Relationships	63.31 df 35	49.80	Reject H _o
53	Professional Independence of Nurses	68.53 df 35	49.80	Reject H _o
54	Teamwork Between Physicians and Nurses	59.19 df 35	49 .80	Reject H _o
55	Nurse Participation in Clinical Decisions	57.24 df 35	49.80	Reject H _o
56	Physician Understanding of Nursing Roles	52.36 df 35	49.80	Reject H _o
57	Physician Support of Nursing Decisions	57.09 df 35	49.80	Reject H _o

		VAR2	_		•	TEST #	, [
-	COUNT ROW PCT		RESIDENT	FELLOW		ROW	:
	TOT PCT	<u> </u>	I 2.	I 3.	I 4	TOTAL	
R7	0.	I 3	I 1	I 1	I O	I 5	
	, , , , , <u> </u>	I 60.0 I 3.9	I 20.0 I 1.8	I 20.0 I 12.5	I 0.0 I 0.0	I 3.2	
		1 1.9	I 0.6	I 0.6	1 0.0	Ĭ -T	
	1.	1 70	I 50	I 7	1 16	I 143	
GREE		I 49.0 I 92.1	I 35.0 I 90.9	1 4.9 1 87.5	I 11.2 I 94.1	I 91.7	
		I 44.9	I 32.1	I 4.5	I 10.3	<u> </u>	·
	2.	I 3	I 4	I O	I 1	I 8	-
TSAGREE		I 37.5 I 3.9	I 50.0 I 7.3	I 0.0 I C.0	I 12.5 I 5.9	I 5.1	-
		I 1.9	1 2.6	I 0.0	1 0.6	1	
		76	55	8	17	156	
	COLUNN	76		-			-
	TOTAL 4.	48.7 32234 HI PART II 0	35.3 TH 6 CEG	5.1 GREES OF I	10.9	100.0 SIGNIFICA	INCE =
I SQUARE	TOTAL ARB COUNT I	48.7 32234 HI PART II Q * * * * * * VAR	35.3 TH 6 CEG	5.1 GREES OF I	10.9	100.0 SIGNIFICA	INCE =
	TOTAL AR8 COUNT	48.7 32234 HI PART II 0 * * * * * VAR	35.3 TH 6 CEG UESTION Z * * * * * * * * * * * * * * * * * *	5.1 GREES OF I	10.9 FREEDON INTERN	100.0 SIGNIFICA	**************************************
	COUNT I	48.7 32234 HI PART II Q * * * * * VAR	35.3 TH 6 CEG UESTION Z * * * * * RESIDENT I 2.1	FELLOH 1	10.9 FREEDOM INTERN I 4. I 2	SIGNIFICA ROH TOTAL	#a
	COUNT I	48.7 32234 HI PART II Q * * * * * VAR	35.3 TH 6 CEG UESTION Z * * * * * * * * * * * * * * * * * *	FELLOW 1 14-3	10.9 FREEDOH INTERN 1 4. I 2. I 28.6	SIGNIFICA ROH TOTAL	#2
* * *	COUNT I	48.7 32234 HI PART II Q * * * * * VAR	35.3 TH 6 CEG UESTION Z RESIDENT 1 2.1 1 2.1 1 28.6 1 1 3.6 1	FELLOH 1 14.3 1 12.5	10.9 FREEDOH INTERN I 4. I 2 I 28.6 I 11.8	ROH TOTAL I 7857 I 7	MCE =
* * *	COUNT I	48.7 32234 HI PART II 0 * * * * * VAR STAFF 1. 28.6 2.6 1.3	35.3 TH 6 CEG UESTION Z * * * * * * * * * * * * * * * * * *	FELLOW 1 1 1 1 1 1 2 . 5 1 0 . 6 1 2	10.9 FREEDOH INTERN 1	ROH TOTAL I 7EST I 7 I 4.5 I I 64	#a
* * *	COUNT I	48.7 32234 HI PART II 0 * * * * * VAR STAFF 1. 28.6 2.6 1.3 51.6 43.4	35.3 TH 6 CEG UESTION Z * * * * * * RESIDENT I 2.1 I 28.6 I 3.6 I 1.3 I	FELLOW 1 14.3 12.5 0.6 2 3.1 25.0	10.9 FREEDOM INTERN 1	ROH TOTAL I 7857 I 7 I 4.5 I	#a
* * *	COUNT I	48.7 32234 HI PART II 0 * * * * * * VAR STAFF 1. 28.6 2.6 1.3 51.6 43.4	35.3 TH 6 CEG UESTION Z * * * * * * * RESIDENT 1	FELLOW 1 14.3 12.5 0.6 2 3.1 25.0	10.9 FREEDOM INTERN 1	ROH TOTAL I 7EST I 7.5 I 4.5 I 4.5 I 4.5	#2
REE	TOTAL = 4. AR8 COUNT I ROW PCT I TOT PCT I	48.7 32234 HI PART II 0 * * * * * * VAR STAFF 1. 28.6 2.6 1.3 51.6 43.4 21.2	35.3 TH 6 CEG UESTION Z * * * * * * * * * * * * * * * * * *	FELLOW FELLOW 1 14.3 12.5 0.6 2 3.1 25.0 1.3	10.9 FREEDOH INTERN I	ROH TOTAL I 7857 I 4.5 I 1 4.5 I 41.0 I 1 41.0	#2
REE	TOTAL = 4. AR8 COUNT I ROW PCT I TOT PCT I	48.7 32234 HI PART II 0 * * * * * * VAR STAFF 1. 28.6 2.6 1.3 51.6 43.4 21.2 41 48.2 53.9	35.3 TH 6 CEG UESTION Z * * * * * * 2 RESIDENT I 2.1 I 28.6 I 3.6 I 1.3 I 1.	FELLOW 3. 14.3 12.5 0.6 1.3 1.3 1.5 0.6 1.3	10.9 FREEDOM INTERN I 2.28.6 I 1.8 I 1.3 I 10 I 15.6 I 58.8 I 6.4 I 59.9 I 29.4	ROH TOTAL I 7857 I 751 I 4.5 I 1 4.5 I 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	#a
	TOTAL = 4. AR8 COUNT I ROW PCT I TOT PCT I	48.7 32234 HI PART II 0 * * * * * * VAR STAFF 1. 28.6 2.6 1.3 51.6 43.4 21.2 41 48.2	35.3 TH 6 CEG UESTION Z # # # # # # # # # # # # # # # # # #	FELLOW FELLOW 1 14.3 12.5 0.6 1.3 12.5 1.5 9 62.5	10.9 FREEDOH INTERN I	ROH TOTAL I 7857 I 7.57 I 4.5 I 4.5 I 41.0 I 41.0 I 85 I 54.5	#a

SSSSS TANGES SECONDS S

		VARZ					
	COUNT						TEST #3
		ISTAFF	RESIDENT	FELLOW	INTERN	ROW	
	COL PCT	I				TOTAL	
	TOT PCT		I.5	3.1	4.	<u> </u>	
89	1 -	I 31	_	5 I	7	I 70	
AGREE		I 44.3	38.6 I	7.1		I 44.9	• •
			[49.1 I	62.5 I		1	
-			17.3 I		4.5	I	· · · · · ·
		1	[]	I		I	mages or many reference to the
	2.	I 45	28 I	3 1		I 86	
DISAGREE			1 32.6 I 1 50.9 I			I 55.1 I	
- •			17.9 I				•
<u> </u>	•	- I	[I				•
	COLUMN	76	55	8	17	156	
	TOTAL	48.7	35.3	5-1	10.9	100.0	
SQUARE	* * · ·	.00662 WIT	H 3 DEGR	EES OF FR	REEDOM	SIGNIFICA	INCE = 0.5710
I SQUARE		ODG62 WITH		EES OF FR	REEDOM	SIGNIFICA BY	•
I SGUARE VAR10	PAR	T II QUEST		EES OF FR	REEDOM	-	•
	PAR + * * *	VAR2	ION 4	* * * *	* * * *	8Y	•
	COUNT ROW PC	VAR2 I T ISTAFF	ION 4	FELLON	INTERN	-	VAR2 Q3:
VAR10	PAR * * * * * * * * * * * * * * * * * * *	VAR2 I T ISTAFF	RESIDENT	FELLON 3	INTERN	ROH TOTAL	•
VAR10	COUNT ROW PC COL PC TOT PC	VAR2 I I STAFF I I I	ION 4	FELLOW I 3.	INTERN	ROH TOTAL	VAR2 Q3:
VAR10	COUNT ROW PC	VAR2 I T ISTAFF T I T I	RESIDENT	FELLOW I 3. I 1	INTERN I 4	ROW TOTAL	VAR2 Q3:
VAR10	COUNT ROW PC COL PC TOT PC	VAR2 I I STAFF I I I	RESIDENT	FELLOW I 3.	INTERN 1 4 1 2 1 28.6	ROH TOTAL	VAR2 Q3:
VAR10	COUNT ROW PC COL PC TOT PC	VAR2 I T ISTAFF T I T I T I T I T I T I T I T I T I T I	RESIDENT 1 2. I 3 I 42.9	FELLOW I 3. I 1 I 14.3	INTERN 1 4 1 2 1 28.6	ROH TOTAL •I •I •I •I •I •I • 4•5	VAR2 Q3:
VAR10	COUNT ROW PC COL PC TOT PC	VAR2 I T ISTAFF T I T I T I 1 14.3 I 1.3 I 0.6	RESIDENT 1 2. 1 3 1 42.9 1 5.5 1 1.9	FELLOW 1 3. 1 1 1 14.3 1 12.5 1 0.6	INTERN I 4 I 2 I 28.6 I 11.8	ROH TOTAL •I •I •I •I •I •I •I	VAR2 Q3:
VAR10 * * * *	COUNT ROW PC COL PC TOT PC	VAR2 I T ISTAFF T I T I T I T I T I T I T I T I T I T I	RESIDENT .1 2. .1 3 .1 42.9 .1 5.5 .1 1.9 .1 20	FELLOW I 3. I 14.3 I 12.5 I 0.6 I 2	INTERN I 4 I I 2 I 28.6 I 11.8 I 1.3 I I 9	ROW TOTAL •I •I •I •I •I •I •I •I •I	VAR2 Q3:
VAR10	COUNT ROW PC COL PC TOT PC	VAR2 I T ISTAFF T I T I 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RESIDENT 1 2. 1 3 1 42.9 1 5.5 1 1.9 -1 20 1 30.9	FELLOW I 3. I 14.3 I 12.5 I 0.6 I 2 I 3.1	INTERN I	ROW TOTAL •I •I •I •I •I •I •I •I •I •I •I •I •I	VAR2 Q3:
VAR10	COUNT ROW PC COL PC TOT PC	VAR2 I T ISTAFF T I T I 14.3 I 1.3 I 0.6 -I	RESIDENT 1 2. 1 3 1 42.9 1 5.5 1 1.9 -1 20 1 30.9 1 36.4	FELLOW I 3. I 14.3 I 12.5 I 0.6 I 2 I 3.1 I 25.0	INTERN I 2 I 28.6 I 11.8 I 1.3 I 9 I 13.8 I 52.9	ROH TOTAL •I •I •I •I •I •I •I •I •I •I •I •I •I	VAR2 Q3:
VAR10 * * * *	COUNT ROW PC COL PC TOT PC	VAR2 I T ISTAFF T I T I 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RESIDENT 1 2. 1 3 1 42.9 1 5.5 1 1.9 -1 20 1 30.9	FELLOW I 3. I 14.3 I 12.5 I 0.6 I 2 I 3.1	INTERN I	ROW TOTAL •I •I •I •I •I •I •I •I •I •I •I •I •I	VAR2 Q3:
VAR10	COUNT ROW PC COL PC TOT PC	VAR2 I T ISTAFF T I T I 14.3 I 1.3 I 0.6 -I	RESIDENT 1 2. 1 3 3 4 2. 9 1 5. 5 1 1. 9 1 1 2. 0 1 30. 8 1 36. 4 1 12. 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FELLOW I 3. I 14.3 I 12.5 I 0.6 I 2 I 3.1 I 25.0	INTERN I 2 I 28.6 I 11.8 I 1.3 I 9 I 13.8 I 52.9	ROH TOTAL •I •I •I •I •I •I •I •I •I •I •I •I •I	VAR2 Q3:
VAR10	COUNT ROW PC COL PC TOT PC	VAR2 I T ISTAFF T I T I 14.3 I 14.3 I 0.6 I 34 I 52.3 I 44.7 I 21.8 I 48.8	RESIDENT 1 2. 1 3. 1 42.9 1 5.5 1 1.9 1 30.8 1 36.4 1 12.6 1 32 1 38.1	FELLOH I 3. I 14.3 I 12.5 I 0.6 I 25.0 I 1.3 I 25.0 I 1.3 I 6.0	INTERN I 28.6 I 11.8 I 1.3 I 9 I 13.8 I 52.9 I 5.8 I 7.1	ROW TOTAL • I • I • I • I • I • I • I • I • I •	VAR2 Q3:
VAR10	COUNT ROW PC COL PC TOT PC	VAR2 I T ISTAFF T I T I T I T I T I T I T I T I T I T I	RESIDENT 1 2. 1 3. 1 42.9 1 5.5 1 1.9 -1 1 30.9 1 36.4 1 12.6 -1 1 32 1 38.1 1 58.2	FELLOW I 3. I 14.3 I 12.5 I 0.6 I 2. I 3.1 I 25.0 I 1.3 I 1.3 I 6.0 I 62.5	INTERN I 4 I 28.6 I 11.8 I 1.3 I 9 I 13.8 I 52.9 I 5.8 I 7.1 I 7.1 I 35.3	ROW TOTAL I 7 I 4.5 I 1 65 I 41.7 I 84 I 53.8 I	VAR2 Q3:
VAR10	COUNT ROW PC COL PC TOT PC	VAR2 I T ISTAFF T I T I 14.3 I 14.3 I 0.6 I 34 I 52.3 I 44.7 I 21.8 I 48.8	RESIDENT 1 2. 1 3. 1 42.9 1 5.5 1 1.9 1 20 1 30.8 1 36.4 1 12.6 1 32 1 38.1 1 58.2 1 29.5	FELLOH I 3. I 14.3 I 12.5 I 0.6 I 25.0 I 1.3 I 25.0 I 1.3 I 6.0	INTERN I 2 I 28.6 I 11.8 I 1.3 I I 9 I 13.8 I 52.9 I 5.8 I 7.1 I 35.3 I 3.8	ROW TOTAL .I	VAR2 Q3:
VAR10 * * * AR10 AGREE	COUNT ROW PC COL PC TOT PC	VAR2 I T ISTAFF T I Y I 1 -I I 1, 1, 3, 1, 0, 6, 1, 3, 1, 1, 3, 1, 1, 3, 1, 1, 3, 1, 1, 1, 3, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	RESIDENT 1 2. 1 3. 1 42.9 1 5.5 1 1.9 -1 1 30.9 1 36.4 1 12.6 -1 1 32 1 38.1 1 58.2	FELLOW I 3. I 14.3 I 12.5 I 0.6 I 2. I 3.1 I 25.0 I 1.3 I 1.3 I 6.0 I 62.5	INTERN I 4 I 28.6 I 11.8 I 1.3 I 9 I 13.8 I 52.9 I 5.8 I 7.1 I 7.1 I 35.3	ROW TOTAL .I	VAR2 Q3:

PANY DEFEND COLLEGE SERVING ZUNGKE

ANTI PART IT GOESTION >	VAR11	FART	ΙI	QUESTION	5
-------------------------	-------	------	----	----------	---

		VAR2					
	COUNT	I			•		
	FOH POT	ISTAFF	RESIDENT	FELLOW	INTERN	ROW	
	COL PCT_	I				TOTAL	
	TOT PCT	I 1.	I 2.1	3.	I 4.	I	
VAR11		I	·I)	I	I	I	TEST
•	0.	I O	I 1 1	t o	I 9	I 1	ـ ـ ـ
		I 0.0	I 100.0 1		_	I 0.6	# 5
		I 0.0	I 1.8			I	
		I 0.0	I 0.6	0.0	î 0 • c	<u> </u>	
	1.	1 I 66	I 46	7	I 14	1 I 133	nes a
AGREE		I 49.6	<u> </u>	5.3	I 10.5	I 85.3	**
M41122		I 86.8			I 82.4	T 03.5	
		I 42.3	I 29.5	4.5	I 9.0	* T	
	-	I	[]	[I	Ī	
	2.	I 10	I 8]	1	1 3	I 22	
DISAGREE		I 45.5	I 36.4	I 4.5	I 13.6	I 14.1	
		1 13.2	I 14.5		I 17.6	I	
		I 6.4	I 5.1	0.6	I 1.9	I	
	COLUMN	76	·[] 55	8	17	I 156	
 	TOTAL	43.7	35.3	5.1	10.9	100.0	
	10.AL	7007	57.5	J• •	1003	10000	•
CHI SQUARE	= 2.	11980 HIT	H 6 DEGR	REES OF F	REEDON	SIGNIFIC	ANCE = 0.903
W 4 D 4 D	5.5		• • • ·				
VAR12	PARI I	T ADEZITO	N 6				. .
+ + + +	+ + + + 	· · · · ·	- + + +	* * * * *			
	·	IAR2			. =		
	COUNT I	MIC					

	COL PUI					TOTAL		
	TOT PCT	T 1.	2.1	3.1	4.	· T	TES	
VAR12		I	II	<u>1</u>	74	Ĭ	平	lo
	0.	1 2	I 3 I	0 1	3	I 8		-
		I 25.0	1 37.5 I	0.0	37.5	I 5.1		
·-· · - · - · - · - · - · - · - · - · -		I 2.6	5.5 I	0.0	17.6	I		
		I 1.3	I 1.9 I	0.0 1	1.9	I		
	•	I	[]	I		I		
	1.	I 66	41 I	5 I	13	I 125		
AGREE		I 52.8	32.8 1	4.0 I	10.4	I 80.1		••
		I 86.8	I 74.5 I	62.5 I	76.5	I		
		I 42.3	I 26.3 I	3.2	8.3	I		
	-	I	[I	I		I		
	2.	I 8	11 1	3 1	1.	I 23		
DISAGREE		I 34.8	[47.8 I	13.0 I	4.3	I 14.7		
		1 10.5	20.0 I	37.5 I	5.9	I		
		I 5.1	7.1 1	1.9 I	0.6	I		
		76	[[·	I	47	I .		
	COLUHN	76	55		17	156		**
• •	TOTAL	48.7	35.3	5.1	10.9	100.0	•	•
CHI SQUARE	= 10 13.	15369 WITH	6 DEGRI	EES OF FR	EEDON	SIGHIFICA	NCE =	0.0

VAR13 PART II QUESTION 7

	COU ROH COL	PCT	ISTAF	F	RES	LDENT	T FELLOH		INTERN .	ROW Total	TEST
	TUT		1	1.	ĭ T	2,	· I	3.	Y - 4.		#7
VAR13		1.	Ī	74	I	51	I 8	:	I 16	I 149	I
AGREE			I 49	.7		. 2	I 5.4	2	10.7	I 95.5	
•				. 4		2.7	I 100-0	-	I 94.1	I	
-		_	I 47	. 4	I 32	2.7	I 5.1	:	I 10.3	Į	•
		2.	I	2	Ī	4	I 0		I 1	Î 7	•
DISAGREE			I 28	. 6	I 57	7 - 1	I 0.0]	I 14.3	I 4.5	
			1 2	.6	1 7	7.3	I 0.0	1	I 5.9	I	
			I 1	• 3	I Z	2.E	I 0.0		0.6	I	
	COL	UMN -	.,,,,,,,,	76	1	55	8	,	17	156	. موسوع بي در د. معمد
	TO.		48	. 7	3 9	5.3	5.1		10.9	100.0	

CHI SCUARE = 1 2.05938 WITH 3 DEGREES OF FREEDON SIGNIFICANCE = 0.5682

VAR14 PART II GUESTION 8

-		POT	I		RESIDENT	FELLON	INTE	RN	ROH	Tε	ST
/AR14		PCT PCT	I	1.I	2.	I 3.	I	4.1	TOTAL	北	8
WKT#		0.	I	2 I	0	I O	I	0 1	2		
			I 100.0 I 2.6 I 1.3	5 I	0.0	I 0.0 I 0.0 I 0.0	I 0	0 1	1.3 [· •
AGREE		1.	I 73		51 34.5	I 7 I 4.7	I 11	17] •5]	148 194.9	•	• .
			I 96.		92.7 32.7	I 67.5 I 4.5	I 100			-	•
CISAGREE		2.	I 16.7 I 1.3 I 0.6	5 I	4 66.7 7.3 2.6	I 1 I 16.7 I 12.5 I 0.6	I 0.	0 1	. 3.8	· · · · · · · · · · · · · · · · · · ·	* (*) * (*) * (*)
	COL	UNN TAL	76 48•7	I 5	55 35.3	8 5.1	I] 17	156 100.0		•

CHI SQUARE = 1 7.39179 HITH 6 DEGREES OF FREEDOM SIGNIFICANCE = 0.2861

```
VARIS FART II GUESTION 9
                      VARZ
            COUNT I
            ROW PCT ISTAFF RESIDENT FELLOW INTERN ROW
                                                                   TOTAL
            COL PUT I
            TOT PCT I 1.I 2.I 3.I 4.I
VAR15
                 0. I 2 I 4 I 2 I 1 I 9
I 22.2 I 44.4 I 22.2 I 11.1 I 5.8
I 2.6 I 7.3 I 25.0 I 5.9 I
I 1.3 I 2.6 I 1.3 I 0.6 I
                    I 57 I 42 I 3 I 12 I 114
I 50.0 I 36.8 I 2.6 I 10.5 I 73.1
I 75.0 I 76.4 I 37.5 I 70.6 I
               2. I 17 I 9 I 3 I 4 I 33
I 51.5 I 27.3 I 9.1 I 12.1 I 21.2
                I 22.4 I 16.4 I 37.5 I 23.5 I
I 10.5 I 5.8 I 1.9 I 2.6 I
-I----I
            CULUAN 76 55 8 17 156
TOTAL 48.7 35.3 5.1 10.9 130.0
OHI SQUARC = 9.85622 WITH 6 DEGREES OF FREEDOM SIGNIFICANCE = 0.1364
              PART II QUESTION IT
              COUNT I
              ROW PCT ISTAFF RESIDENT FELLOW INTERN RCW TOTAL
                           1.I 2.I 3.I 4.I TEST
             TOT PCT I
                  0. I 4 I 3 I 2 I 2 I 11
I 36.4 I 27.3 I 18.2 I 18.2 I 7.1
                     I 5.3 I 5.5 I 25.0 I 11.8 I
I 2.6 I 1.9 I 1.3 I 1.3 I
                 1. I 40 I 34 I 2 I 11 I 87
I 46.0 I 39.1 I 2.3 I 12.6 I 55.8
I 52.6 I 61.8 I 25.0 I 64.7 I
I 25.6 I 21.8 I 1.3 I 7.1 I
   2. I 32 I 18 I 4 I 4 I 58

DISAGREE I 55.2 I 31.0 I 6.9 I 6.9 I 37.2

I 42.1 I 32.7 I 50.0 I 23.5 I

I 20.5 I 11.5 I 2.6 I 2.6 I
           TOTAL 48.7 35.3 5.1 10.9 100.0
 CHI SQUARE = # 8.82549 WITH 6 DEGREES OF FREEDOM SIGNIFICANCE = 0.1836
```

		VAR2		<u></u>			
	COUNT ROW PCT COL PCT	I ISTAFF	RESIDENT	FELLOW	INTERN	ROW	-
•	TOT PCT		2.1	3.1	4.	TOTAL I	TEST
AR17	0.	II	I	4	I 1	I .	· #
		1 - 50 - 0 - 1	0.0 i		25.0	2.6	
	·	I 2.6 I			. , ,	I	
		I 1.3 I	0.0 1	0.6	I 0.6	I	
	1.	Y 4 1	6 I	1	r 0	Ī11	
STRONGLY	DISAGRE	I 36.4 I				7.1	
		1 5.3 I		-		I -	
		I 2.6 I II		0.6	0.0	I I	
	2.	I 14 I	7 I		•	Ī 24	
DISAGREE		I 58.3 I I 18.4 I		12.5 1 37.5 1		I 15.4	
NEUTRAL		I 11 I I 37.9 I		3.4		I 29 I 18.6	•
	, ,	I 14.5 I I 7.1 I				I I	•
· · · · · · · ·	4.	1I I 32 I	25 I	2	I 12	I , I 71	
AGREE			35.2 I			I 45.5	
-		I 42.1 I	45.5 I	25.0	70.6	Ī	
		I 2J.5 I	16.0 I	1.3	7.7	I	- 1
		I 13 I	- 4 I	Q	[0	1 I 17	•
STRONGLY	AGREE	I 76.5 I				I 10.9	
4		I 17.1 I I 8.3 I				I I	•
		II	I		[I	
	COLUMN TOTAL	76 48•7	55 35.3	8 5.1	17 10.9	156 100.0	

		VAR2					
	COL PCT	ISTAFF I I 1.1	RESIDENT		INTERN 4.	ROH TOTAL	TEST
IAR18	0.	I 1.I I 2 I I 66.7 I	0 1	1	I I 0	I I 3 I 1.9	# 12
		I 2.6 I I 1.3 I	0.0 1	12.5	I 0.0	I I I	•
STROMSLY	1. DISAGRE	I 6 I I 50.0 I I 7.9 I I 3.3 I	9.1 I	0.0	I 5.9	1 12 1 7.7 1 1	
DISAGREE		I 15 I I 46.9 I I 19.7 I I 9.6 I	31.2 I 18.2 I	4 12.5 50.0 2.6	I 9.4 I 17.6	32 I 20.5 I	
NEUTRAL		I 22 I I 47.8 I I 28.9 I	32.6 I 27.3 I	4.3 25.0	I 41.2	I 46 I 29.5 I	
AGREE	4.	I 14.1 I II I 27 I I 50.9 I I 35.5 I I 17.3 I	20 I 37.7 I 36.4 I 12.8 I	1 1.9 12.5 0.6	I 5 I 9.4 I 29.4 I 3.2	I I I 53 I 34.0 I	
STRONGLY	5. AGREE	I 40.0 I I 5.3 I I 2.6 I	50.0 I 9.1 I 3.2 I	0.0 0.0 0.0	I 10.0 I 5.9 I 0.6	I 10 I 6.4 I -	
	COLUMN TOTAL	76 48•7	55 35.3	8 5.1	17 10.9	156 100.0	•

CHI SQUARE = 10 14.26608 HITH 15 DEGREES OF FREEDOM SIGNIFICANCE =

VAR19 FART III QUESTION 3

	COUNT :	VAR2 I Istaff	DESTREKT	EELLOW	INTERN	RON	TEST	•
C		I				TOTAL	#13	
AR19 -	0.	[] T 4]	[]	[I o	I 3		
	•	33.3		66.7	I 6.6	1.9	. =	
		I 1.3]			I 0.0 I 0.0	I I —		
. <u></u> . :		[]	[[I	I ,		
STRONGLY D	I. DISAGRE	I 1 1 I 25.0 1	[2] [50•0]	-	I 0.0	I 4 I 2.6		
		1 1.3) I 0.6]			I 0.0 I 0.0	I .		
.*	· · · · · · · · · · · · · · · · · · ·	[[I	I	I		
DISAGREE	-	I 9 1 I 75.0 1			-	I 12 I 7.7		
		11.8				ī		
							•	
		I 5.8	1.9	I 0.0	I 0.0	I	·	
	3.	I 8	6	I 0	I 4	I 18		÷
NEUTRAL_		$\frac{1-44.4}{10.5}$				I 11.5		
		5.1	3.8		I 2.6	Ī		
	4.	I 32]	21	I I 3	I 4	I 60		
AGREE		53.3	-	I 5.0	I 6.7	_		
·		I 42.1 1	38.2 13.5		I 23.5 I 2.6	I	* * * * * * * * * * * * * * * * * * *	
	₆	I I 25	23	I 2	I I 9	I 59		
STRONGLY A		I 42.4	39.0	I 3.4	I 15.3	I 37.8		
		I 32.9 I 16.0	141.8	25.0 I 1.3	I 52.9 I 5.8	I T	•	
	-	I	[I	I	Ī		
	TOTAL	76 48•7	55 35•3	5.1	17 10.9	156 100.0		

	COUNT	VAR2			- i	· · · · · · · · · · · · · · · · · · ·	Tic ci	-
	ROW PCT	ISTAFF I	RESIDENT	FELLOW	INTERN	ROW	TEST	_
/AR20	TOT PCT	I 1.	2•I [I	3.]	[4.] []			
	0.	I 1 33.3 I 1.3 I 0.6	0.0 I 0.0 I 0.0 I	2 66.7 25.0 1.3	0.0	1.9		
STRONGLY	1. DISAGRE	I 2 I 66.7 I 2.6 I 1.3	1 1 I 1 33.3 I 1 1.5 I	0.0 I	0.0 1 0.0 1	[
CISAGREE	2.	I 11 I I 50.0 I I 14.5 I I 7.1	40.5 I	1 I 4.5 I 12.5 I 0.6 I	4.5] 5.9]		,	• • •
NEUTRAL	3.	I 21 I 42.0 I 27.6 I 13.5	[_40.0_I	2] 4.0] 25.0] 1.3]	29.4			
AGREE	4.	. <u></u>	18 I 31.6 I 32.7 I 11.5 I	3 1 5.3 1 37.5 1 1.9 1	12.3 1 41.2 1 4.5 1	36.5		-
STRONGLY	AGREE	I 12 I I 57.1 I I 15.8 I	23.8 I	0.0 I		21 13.5	K	
	CULUHN TOTAL	76 48.7	55 35. 3	8 5.1	17 10.9	156 100.0		

VAR21	PART	III	QUES	TION	5

		VAR2	•				TEST
	COUNT ROW PCT COL PCT TOT PCT	ISTAFF I	RESIDENT		INTERN	RON TOTAL	# 15
VAR21	0.	I 1 1 1 1 50.0 I 1.3 I 0.6		I 0.0 I 0.0	I 0.0	I 2 I 1.3 I I I	•
STRONGLY	1. DISAGRE	I 5 I 71.4 I 6.6 I 3.2	1 3.6	I 0.0 I 0.6	I 0.0	I 7 I 4.5 I	
DISAGREE		I 3 I 27.3 I 3.9	I 54.5	18.2	I 0.0	I 11 I 7.1 I	<u></u>
•		I 1.9	Ï 3.8	1.3	I 0.0	Į.	
NEUTRAL	3.	I 11 I 35.5 I 14.5 I 7.1	I 23.6	I 25.0	I 16.1 I 29.4	I 31 I 19.9 I	• • • • • • • • • • • • • • • • • • •
AGREE	4.	I 21 I 45.7 I 27.6 I 13.5	I 18 I 39.1 I 32.7 I 11.5	1 4.3		I I 46 I 29.5 I	
STRONGLY		I 35 I 59.3 I 46.1 I 22.4	1 27.3	1 25.0	I 7 I 11.9 I 41.2 I 4.5	I I 59 I 37.8 I	
	COLUMN	76 48.7	55 35.3	8 5.1	17 10.9	156 100.0	

CHI SQUARE = 15.55746 WITH 15 CEGREES OF FREEDOM SIGNIFICANCE = 0.4121

VAR22	DADT	TTT	QUESTION	6
VARCE	FMTI	111	MOESITON	O

	ROW PCT	VAR2 I ISTAFF I I 1.	RESIDENT		INTERN	TOTAL	TEST # 16
VAR22	0	I 0.0		0.0	I 0.0 I 0.0 I 0.0	I 1 I I I I I I I I I I I I I I I I I I	
CISAGREE		I 28.6 I 2.6	I 57.1 I	0.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I 7 I 4.5 I	
NEUTRAL	3.	I 56.2 I 11.8		0.0		1 16 I 10.3 I	
AGREE		I 27 I 51.9 I 35.5 I 17.3	I 25.5	11.5 75.0	5 1 9.6 1 29.4 1 3.2	I I 52 I 33.3 I	· · · · · · · · · · · · · · · · · · ·
STRONGLY			I 39.2 I 56.4		9 11.4 52.9	I 79 I 50.6 I	
	6.	I 1 1 1 I I I I I I I I I I I I I I I I	I 0.0 I	0.0	0 • 0 1 0 • 0 1 0 • 0	I 1 I I I I I I I I I I I I I I I I I I	ing separate
	COLUMN	76 48•7	55 35•3	8 5•1	17 10.9	156 100.0	

CHI SQUARE = 12.82186 WITH 15 LEGREES OF FREEDOM SIGNIFICANCE = 0.6161

COUNT	VAR2			TEST		
ROW PC1 COL PC1 TOT PC1	T I	RESIDENT		INTERN 4.1	ROW TOTAL	#17
AR23	I 1 1 1 1 1 50.0 I 1.3 I 0.6	I 0.3 I 0.0	50.0 I 12.5		I 1.3	
1. STRONGLY DISAGRE	1 13.2	12.7	1 12.5	I 2 I I 10.0 I I 11.8 I I 1.3 I	I 20 I 12.8 I	······································
2. DISAGREE	I 43.6	35.9	10.3	1 10.3 1	I 39 I 25.0 I	
	I 10.9	I 9.0	2.6	I 2.6 I	<u>-</u> .	• • • • • • • • • • • • • • • • • • •
NEUTRAL	I 5.3	I 46.2 I 10.9	1 0.0	I 3 I I 23.1 I I 17.6 I	13 I 8.3 I	
AGREE 4.	I 21 1 50.0	I 17 I 40.5	I 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I 3] I 7.1] I 17.6]	1 1 42 26.9	

CHI SQUARE = 18.21147 WITH 15 CEGREES OF FREEDOM SIGNIFICANCE = 0.2517

1 2•5 5 I 12.5 I

17

10.9

156

100.0

11 27.5 20.0

55 35.3

23 57.5 30.3

COLUM !

		VAR2 I			· · · · · · · · · · · · · · · · · · ·	,	TEST
	COL POT	ISTAFF I	RESIDENT			ROW Total	# 18
VAR24	TOT PCT	I 1	·1 2.	[4.	I T	
	0 •	I 1 1 1 1 1 1 1 1 1 1 1 1 1 3 I 1 0 6	I 0.0	0.0 I 0.0 I 0.0	I 0.0 I 0.0 I 0.0	I 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
STRUNGLY	1. DISAGRE	I 5 I 35.5 I 6.6 I 3.2	I 46.2	I 2 I 15.4 I 25.0 I 1.3	I C.O I C.O I O.O	I 13 I 8.3 I	
DISAGREE	ž.	I 12 I 42.9 I 15.8 I 7.7	I 42.9 I	1 3.6 1 12.5 1 0.6	I 3 I 10.7 I 17.6 I 1.9	I 26 I 17.9 I	· · - · · · · · · · · · · · · · · ·
NEUTRAL	3.	I 19 I 61.3 I 25.0 I 12.2	I 32.3 I	I 0.0 I 0.0 I 0.0	I 2 I 6.5 I 11.8 I 1.3	I I 31 I 19.9 I I	·
AGREE	4.	I 22 I 40.7 I 28.9 I 14.1	I 33.9	I 4 I 7.4 I 50.0 I 2.6	I 7 I 13.0 I 41.2 I 4.5	I I 54 I 34.6 I	
STRONGLY	5. AĞREE	I 17 I 58.6 I 22.4 I 10.9	I 20.7	I 1 I 3.4 I 12.5 I 0.6	I 5 I 17.2 I 29.4 I 3.2	I I 29 I 18.6 I	
	COLUMN TOTAL	76 48•7	55 35.3	8 5 . 1	17 10.9	156 100.0	•

PACCOCCO TANGESCO I SESSESSON MEDITARIO SESSESSON I MACCOCCO MACCOCO MACCOCCO MACCOCO MACCOCO MACCOCO MACCOCO MACCOCO MACCOCCO MACCOCO MACCOCO MACCOCO MACCO MACCOCO

VAR25 FART III QUESTION 9

	COUNT	VAR2					· ·
VAR25	ROW PCT	ISTAFF I	RESIDENT	FELLON	INTERN		TEST
VAKC5		I 2.6	I 25.0 1	1 1 25.0 1 12.5 1 0.6	I 0.0 I 0.0	I 4 I 2.6 I	
STRONGLY		I 2.6 I 1.3	I 62.5 I 9.1 I 3.2	I 0.0	I 12.5 I 5.9 I 0.6	I 8 I 5.1 I	
CISAGREE		I 10 I 43.5	I 34.8	2	I 3 I 13.0	I 23 I 14.7 I	
		I 6.4 I	I 5.1	1.3	I 1.9	I I	
NEUTRAL	•	I 53.3 I 21.1	I 30.0 I I 16.4 I I 5.8	C.O	I 16.7 I 29.4 I 3.2	1 30 I 19.2 I	***
AGREE		I 45.3	I 37.5 I 43.6	6.3 50.0 2.6	I 7 I 10.9 I 41.2 I 4.5	I 64. I 41.0. I	- · · · · · · · · · · · · · · · · · · ·
STRONGLY	AGREE	I 63.0 I 22.4 I 10.9	I 29.6 I 14.5 I 5.1	1 3.7 12.5 0.6	I 1 1 I 3.7 I 5.9 I 0.6	I 27 I 17.3 I	• • • •
	COLUMN	76 48.7	55 35.3		17 13.9	156 100.0	* h · · · • • • • • • • • • • • • • • • •

THI SQUARE = 13.45079 WITH 15 DEGREES OF FREEDON SIGNIFICANCE = 0.5675

VAR26	PART	III QUEST	ICN 18	TWITE BY A C			
	ROW PCT	VAR2 I ISTAFF I I 1.	RESIDENT		4•1	TOTAL	TEST # 20
VAR26		I 3.9		0.0 0.0 0.0	0.0 1 0.0 1	[4 [2.6 [
STRONGLY	1. DISAGRE	I 20.5 I	1 5.5 1	20.3	0 0 1 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1	5 3.2	
DISAGREE		I 10 I I 41.7 I I 13.2		1 4.2 12.5	4 1 1 16.7 1 23.5 1	24 15.4	•
NEUTRAC	3.	I 17 I 56.7 I 22.4	I 16.4 I I 5.8 I	3.3 12.5	10.0 1 17.6 1 1.9	30 1 19•2 1	
AGREE		I 30 I 45.5 I 39.5	I 26 I I 39.4 I I 47.3 I	6•1 50•0	6 1 9.1 1 1 35.3 1	66 1 42.3 1	
STRONGLY	AGREE	I 55.6 I 19.7	1 12.7	1 3.7 12.5	4 1 1 14.6 1 23.5 1 2.6	27 17.3	•
	COLUMN	76	55 35.3	8 5•1	17 10.9	156 100.0	•

CHI SQUARE = 48 9.82097 WITH 15 CEGREES OF FREEDOM SIGNIFICANCE = 0.6308

VAR27 FART III QUESTION 11

ACOCA MONNY SISSIMA RECECCE SISSIMA NICOLA SISSIMA RECORDA MONICO DI DIVININA RECECCIO DI PORTO DE POR

*** <u> </u>	.	VAR2	•= =: . =:				
VAR27	COL PCT	I ISTAFF I I <u>1</u> •	RESIDENT		INTERN	ROW TOTAL	TEST 一神。
	1. DISAGRE	1 10.5	I 3.6	I C.O :	I 0 0 I 0 0 I 0 0 I 0 0 0	I 10 I 6.4 I	•
DISAGREE	2.	13.5		I 0.0		I 15 I 9.6 I	, , 1
NEUTRAL	3.		I 28.9	0.0	7.9	I 38 I 24.4 I	•
		15.4	I 7.1]	0.0	1.9	I T	
AGREE	4.	30.3	25 1 37.9 1 45.5 1 16.0 1	7 1 10.6 1 37.5 1	16.7	I 66 I 42.3 I	
STRONGLY	5. I	13 48.1 17.1 8.3	10 I 1 37 0 I 1 18 2 I	1 I 3.7 I 12.5 I 0.6 I	11.1 17.6	I I 27 I 17.3 I	
	COLUMN TOTAL	76 48•7	55 35•3	8 5•1	17 10.9	156 100.0	-

CHI SQUARE = 4 20.35977 HITH 12 DEGREES OF FREEDOM SIGNIFICANCE = 0.0006

		VARZ					•
AR28	COL PCT	ISTAFF	RESIDENT	FELLOH		-	TEST #aa
MR 20	0.	I 0.0 I I 0.0 I I 0.0 I	66.7 I	33.3 1 12.5 1	0.0	I 3 I 1.9 I	
STRONGLY	1. DISAGRE	I 0.0 I I 0.0 I	[I 5 I 100.0 I 9.1 I	0 1 0 0 1 0 0 1	0.0 0.0 0.0	I 5 I 3.2 I	
DISAGREE	2.	I 11 I I 61.1 I I 14.5 I I 7.1	27.8 I 9.1 I	5.6 I 12.5 I	5.6 5.9	I 18	-
NEUTRAL	3.	I 17 I I 56.7 I I 22.4 I I 10.9 I	26.7 I 14.5 I	C.O 1	16.7 29.4 3.2	I I 30 I 19.2 I	
AGREE	4.	I 27 I I 44.3 I I 35.5 I I 17.3 I	36.1 I 40.0 I 14.1 I	6.6 J 50.0 J 2.6 J	13.1 47.1 5.1	1 61 1 39.1 1	
STRONGLY	S. AGREE	I 27.6 I I 13.5 I	13 I 33.3 I 23.6 I	5.1 1 25.0 1	7.7 17.6 1.9	I 39 I 25.0 I	
,	CCLUMN TOTAL	76 48.7	55 35.3		17	~	

PART III QUESTION 13

CULUMN

TOTAL

	ROW POT	VAR2 I Istaff I			INTERN	ROW Total	TEST # 23
VAR29 STRONGLY	1. DISAGRE	I 1 1 1 I	5]	0.0	I 4.I I 0 I I 0.0 I I 0.0 I	6	•
DISAGREE	2.	I 2 1 1 2 1 1 2 2 1 2 2 2 1 2 6 1 1 3 1	4 3 44.4 3 7.3 1 2.6 3	12.5	I 2 I I 22.2 I I 11.8 I I 1.3 I	9 5•8	•
NEUTRAL	3.	I 15 1 I 62.5 1 I 19.7 1 I 9.6 1	7 1 29.2 I 12.7 1	0.0	I 2 I I 8.3 I I 11.8 I I 1.3 I		
AGREE	4.	I 33 I I 48.5 I I 43.4 I		7.4	I 8 I I 11.8 I I 47.1 I	43.6	
•	•	I 21.2 I	14.1]	3.2	I 5.1 I		
STRONGLY	5. AGREE	1 25 1 I 51.0 1 I 32.9 1			1 5 1 I 10.2 I I 29.4 I	~ = 0 .	

CHI SQUARE = " 12.97415 WITH 12 DEGREES OF FREEDOM SIGNIFICANCE =

17

156

***************************************	VAR30	PART	III	QUESTION	14
---	-------	------	-----	----------	----

	COUNT	VAR2			-		TEST
	ROW PCT	ISTAFF	RESIDENT	FELLOW 3.		ROW TOTAL	#24
VAR3J	TOT PCT	1]	[])	L 40] []		
···		I 100.0 I I 1.3 I I 0.6 I	0 · 0 · 1 0 · 0 · 1	0.0	1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.6	
STRONG	1. GLY DISAGRE	I 4 1 I 36.4 1 I 5.3 1	12.7	0.0 1 0.0	[11 7.1	 ,
DISAGR		I 13.2	1 48.0 I	2 1 8.0 25.0	3 1 1 12•0 1 1 17•6 1	16.0	
NEUTRA	1L	I 18 I I 42.9 I I 23.7 I	19 1 [45.2] [34.5]	12.5		42 26•9	.
AGREE		I 58.8 I 39.5 I		5•9 37•5	[7] [13.7] [41.2] [4.5]	32.7	
STRONG	SLY AGREE	I 50.0	8 1 30.8 1 14.5 1	7.7	3] [11.5] [17.6]	16.7 [• •
	COLUMN	76	55 35.3	8 5•1	17 10.9	156 100.0	4. 24

CHI SQUARE = 113.53689 WITH 15 DEGREES OF FREEDOM SIGNIFICANCE = 0.5609

	COUNT	VARZ		·		<u> </u>	TEST
	ROW PCT	ISTAFF	RESIDENT	FELLON	INTERN	ROW	# ~ = .
D 7.4	TOT POT		i 2.	3.	I 4	TOTAL	. 42
R31	0.	I 0		1	I 0	I 3	•
		I 0.0 I 0.0		I 33.3 I 12.5	I 0.0	I 1.9	
	····	I 0.0	I 1.3	0.6	I 0.0	Ī	
	1.	I 0	I 2	0	I 1	I 3	
STRONGLY	DISAGRE	I = 0.3 I 0.0		I 0.0 I 0.0	I 33.3 I 5.9		.•
		I 0.0		1 0.0	I 0.6	İ	
	2.	I 4	I 9	I 1	I 1	-1 I 15	
DISKGREË		I 26.7 I 5.3		1 6.7 1 12.5	I 6.7 I 5.9	I 9.6	
. -		i 2.6	I 5.8	0.6	I 0.6	Ĭ	
	3.	I 19	I 7	I O	I 1	I 27	
NEUTRAL		I 70.4	I 25.9	I 0.0	I 3.7 I 5.9	I 17.3	
		I 12.2		1 0.0	I 0.6	Ī.	
	4.	I 37		I 5	I 9	-1 I 75	
AGREE		I 49.3 I 48.7	I 32.0 I 43.6	I 6.7 I 62.5	I 12.0 I 52.9	I 48.1	
						7	
•		I 23.7	I 15.4	I 3.2	I 5.8	I	
		I 16	I 11	I i	I 5	-I I 33	
STRONGLY		I 48.5	I_ 33.3	3.0	I 15.2		• • • • • • • • • • • • • • • • • • •
		I 21.1 I 10.3	I 23.0 I	I 12.5 I 0.6	I 29.4 I 3.2	I T	
	COLUAN	76	55	I8	17	- <u>`</u>	
	TOTAL	48.7	35.3	5.1	10.9	100.0	

VAR32 PART III QUESTION :	16
---------------------------	----

THE PROPERTY OF STREET,
	COUNT						TEST
		ISTAFF I I 1.J			INTERN 4.1	ROW TOTAL	# 26
	0.	1 2 1 1 50.0			I 0.0	2.6	
		I 2.6 I	3 · 6]	0.0	I 0.0 1		
STRONGLY	1. DISAGRE	1 00.0 1 1 3.0	3.6	0 1 0.0 1 0.0	I 0.0 1	3.2 1	
DISAGREE		I 42.9 1 3.9 1	I 28.6] I 3.6]	14.3 12.5 0.6	I 14.3 : I 5.9 : I 0.6 :	7 I 4.5 I	
NEUTRAL		I 38.7 I I 15.8 I I 7.7 I	51.6 I 29.1 I	6.5 25.0	I 1 I I 3.2 I I 5.9 I	31 19.9	
AGREE		I 54.3 I	I 30.0 1	1.9	I 11.4 I 47.1 I 5.1	70 44.9	· · · · · · · · · · · · · · · · · · ·
STRONGLY	5. AGREE	1 23.7	1 30.8 1 21.8 1 7.7	5.1 25.0 1.3	I 7 . 1 . 1 . 1 . 2 . 1 . 2 . 1	39 I 25.0 I	
	COLUMN	76 48•7	55 35.3	8 5•1	*	156	

CHI SQUARE = 11.14234 WITH 15 DEGREES OF FREEDOM SIGNIFICANCE = 0.7424

		VARZ					en e
	COUNT ROW PCT	I Istaff	RESIDENT	FELLOW	INTERN	ROW	TEST
	CUL PCT	I .				TOTAL	** * * * * * * * * * * * * * * * * * * *
AF33	TOT PCT	I 1.]	[[3.] []	4.	I T	#27
		i i	1	. 0 I		1 2	
		I 50.0 I		0.0 I		I 1.3	
		1 0.6		0.0 I		İ	
	1.	I Y 4	[] [5]	[] [1 I	1	I I 11	•
STPORGLY			[45.5]	9.1 I		I 7.1	
	•		[9.1] [3.2]	[12.5] [0.6]	5.9 0.6	I T	
	•	I	[]	(U • D	i —	
CISAGREE		•	[<u>5</u>]	2 ,I 13.3 I		I 15 I 9.6	
DISHORCE				25.0 I		I 9.6 I	
		I 5.1	3.2	1.3 I	0.0	Į	- -
	3.	1 11	11	0 1	2	I 24	
NEUTRAL		I 45.8]	·			I 15.4	
•		I 7.1	_	I 0.0 I		I I	
	4.	I 36 1	[24]	(i 4 I		I I 72	• •
AGREE		I 50.0 1		-	-	I 46.2	
		I 47.4	43.6	50.0 I	47.1	I	
							*
• •	_	I 23.1	15.4	2.6 I	5.1	I	
	5.	I 16	Ç	1 1	6	1 I 32	
STRONGLY	AGREE	* >0 * 0	[23.1] [16.4]	3.1 I	18.7	20.5	·
		1 21.1 1 1 10.3		12.5 I 0.6 I	35.3		- -
	•	I	[]	[I		I	
	COLUMN	76 48.7	35.3	5.1	17	156 100.0	

			, , ,	
VAR34	PART	III	QUESTION	18

ROW	UNT 1 PCT 1	STAFF	RESIDENT			TOTAL	TEST #28
VAR34	POT	1.	Y 2.1	3.	I 4.	I T	
TARCY	_				I 0 . C I 0 . C	I 2 I 1.3 I	
	1		T . T T T	0.0	I 0.0	I	
TO STRUNGLY DIS		I 37.5 I 3.9	I 37.5 I 5.5	1 1 12.5	Ī 1	I 8 I 5.1 I	e e e e e e e e e e e e e e e e e e e
CISAGREE]	1 46.4 1 17.1 1 8.3	I 42.9 I 21.8 I 7.7	3.6 12.5 10.6	I 11.8 I 1.3	I 26 I 17.9 I	** *** *** *** *** *** *** *** *** ***
NEUTRAL	3.	53.3 I 31.6	I 15 I I 33.3 I I 27.3 I	25.0	-	1 45 I 28.8 I	
AGREE		45.8 35.5	I 37.3 I	5.1 37.5 1.9	I 11.9 I 41.2 I 4.5	I .	
STRONGLY AGR		1 -10.5 1 -5.1	I 3.6 I	1 7•1 12•5 1 0•6	I 3 I 21.4 I 17.6 I 1.9	I 14 I 9.0 I	. Acceptance of the contract o
COL	אאט	76 48.7	55 35.3	8	17 10.9	156	· · · · · ·

	VAR2	•			-	
COL POT	I ISTAFF I			INTERN	ROH TOTAL	TEST
TOT PCT	I 1.]	2.	I 3.1	4.	I T	一半 29
0.	Ī 3 I	2	1 1	2	I 8	•
	I 37.5 I I 3.9 I I 1.9 I		I 12.5 I I 12.5 I I 0.6 I	11.8	I 5.1 I	
•	·I1		[]		Ī.	• .
STRONGLY DISAGRE	I 7 1 I 43.7 I I 9.2 I I 4.5 I	12.7	I 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5.9	I 16 I 10.3 I	
2.	I 11]	12	[] [2]	3	I I 28	* 14
DISAGREE	1 39.3 1	42.9	7.1	10.7	I 17.9	•
	I 14.5] I 7.1]	7.7	[25.0] [1.3]	17.6	I I I	
3.	1 19	13	3 1	1	I 36	
NEUTRAL	1 25.0 1		I 8.3] I 37.5]		I 23.1	
	I 12.2 I	8.3	1.9	0.6	I .	
AGREE	I 32 I I 59.3 I I 42.1 I	27.8	I 0.0 I	13.0	I 54 I 34.6 I	·
	7401			74.66	<u></u>	
	I 20.5 1	9.6	0.0	4.5	I T	•••
5.	I 4 I	6	1 1	3	Ī 14	
STRONGLY AGREE	1 28.6 1 1 5.3 1		I 7.1 I		1 9.0 I	4
	I 2.6		0.6		<u></u>	
COLUHN	·I] 76	[] 55	[] 8	17	I 156	
HI SQUARE = 157	48.7	35.3	5.1	10.9	100.0	

	VAR36	PART	III	QUESTION	20
--	-------	------	-----	----------	----

	COUNT	VAR2	<u>.</u>				TEST
	ROH PCT		RESIDENT		INTERN 4.	ROW TOTAL	#80
VAR3E		1 2.6	I 40.0 I 3.6	20.0	I 0.0 I 0.0	I 5 I 3.2 I	#
STRUMÜLY	1. DISAGRE	I 7 I 50.0	I 5 5 1 3 3 . 5 1 9 . 1	1	I 0 0 I 0 0 I 0 0 0	I 13 I 8.3 I	•
DISAGREE		1 9.2	I 9.1 1	25.0	I 6.7 I 5.9	I 15 I 9.6 I	
NEUTRAL		I 50.0	1 37.5 I	1.8	I 10.7	I 56 I 35.9 I	
AGREE	·	I 27.6	I 27.3	37.5		I I 44 I 28.2 I	
STRONGLY	AGREE	I 47.8 I 14.5	I 12.7	0.0	I 21.7 I 29.4	I I 23 I 14.7 I	
	COLUMN TOTAL	76 48.7	55 35.3	8 5.1	17 10.9	156 100.0	

CHI SQUARE = 4 12.16284 WITH 15 DEGREES OF FREEDOM SIGNIFICANCE = 0.6667

```
PART II QUESTION 1
         COUNT I
        ROW POT LAGREE DISAGREE ROW
         COL PCT I
                                TOTAL
               I 3 % I 2 I
               I 4.3 I 2.3 I
               I 65 I 78 I
I 45.5 I 54.5 I
                                 143
                  92.9 I
                          6 I 8
 CISAGREE
               I 25.0 I 75.0 I
                         7.5 T
                  2.9 I
        COLUMN
         TOTAL
                         55.1 100.0
CHI SQUARE = 1.75030 WITH 2 DEGREES OF FREEDOM SIGNIFICANCE =
                VAR13
         COUNT I
         ROW POT TAGREE
                                 RON
                       DISAGREE
         COL PCT I
                           TOTAL
VAR12
                I 100.0 I 0.0 I
                  122 I
                                 125
AGREE
                  81.9 I
                I
                  82.6 I
                         17.4 I 14.7
                          57.1
                  12.8 I
                  149
         COLUMN
                                  156
         TOTAL
                                 190.0
CHI SQUARE = 7 10.58253 WITH 2 CEGREES OF FREEDOM ... SIGNIFICANCE =
```

- 		VAR14				-c-# 22
	COUNT 1 ROW POT 1 COL POT 1		AGREE	DISAGREE	ROW TCTAL	TEST # 33
·	TOT PCT	0.1	1.	I 2.	I	
AR11	0.	0 1	1	I	1 I 1	
	1	0.0	100.0	I 0.0	I 0.6	
·		0.0	0.7	I 0.0	1	e and a second control of the second
·		0.0	0.6	I 0.0	I	
	1.	1	128	I 4	1 133	The state of the property of the state of th
AGREE			96.2	I 3.0	I 85.3	
		50.0	86.5	I 66.7	I	
		0.6	82.1	I 2.5	I	
	2.		19	I S	I 22_	
DISAGREE		4.5			I 14.1	
		50.0 I	12.8	I 33.3	1 .	
i		0.6		I1.3		
	COLUMN	2	148	6	1 156	
	TOTAL	1.3	94.9	3.8	100.0	

KONSTRUCTOR STANDARD - KALANGER MESSELLE MESSELLE - MES

COUNT	VARŽŽ			• -	T 77 34	•	
ROW POT CUL POT TOT POT R19	I.		NEUTRAL I 3.I		AGREE	I 6.1	ROW TOTAL
0.	1 0.0 I 1 0.0 I 1 0.0 I	6.0	I 6.0 I I 6.0 I I 6.0 I	3.8 1	33.3	I 0.0 I I 0.0 I I 0.0 I	1.9
1. STRONGLY DISAGRE	I 0.0 I I 0.0 I	25.0	0 0 I 0 0 0 I 0 0 1	25.0 I 1.9 I	50.0	I 0 I I 3.0 I I 0.0 I	2.6
DISAGREE 2.	I 0.0 I I 0.0 I	42.9	1 1 I 8.3 I 6.3 I 0.6 I		3.8	I 0 0 I I 0 0 I I 0 0 I I 0 0 I	1 2 7 • 7
NEUTRAL 3.	I 0.0 I I 0.0 I I 0.0 I	5.6 14.3	7 I 38.9 I 43.7 I	7.7 I	33.3 7.6	I 0.0 I I 0.0 I I 0.0 I	11.5
AGREE	I	14.3	7 I 11.7 I 43.7 I 4.5 I	55.8 I	38.3 29.1	I 0 I I 0 G I I 0 G I	38.5
STRONGLY AGREE	I 1 I I I I I I I I I I I I I I I I I I	: :	1 I 1.7 I 6.3 I 0.6 I	21.2 I	74.6 55.7	1 1 1 I 1 1.7 I I 100.0 I	
COLUMN	1	4.5	16 10.3	52 33.3	79 50•6	1 0.6	156 100.0

VAR11 PART	II CUESTI	ON 5					* * * *
	VAR19	-	-	TES	त कंडऽ)	
COL POT	I I	STRONGLY DISAGRE				AGREE	ROW TOTAL
VAR11	I 0.	I 1.	I 2.	I 3.	I 4. I	I 5.	I T
0.			I 0.0	a management of a management	I 1	I 0.0	I 1 I 0.6
•	I 0.0	I 0.0	I0_0	0.0	1.7	I 0.0	I
	I 0.0	I 0.0	I 0.0	I 0.3	I 0.6 I	I 0.0	I I
AGMEE	I 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_		I 9.0 I 66.7	I 40.6	I 55 I 41.4 I 93.2 I 35.3	I 133 I 85.3 I
, ,	I	I	I	I6	I	I	I 22
DISAGREE 2.		1 9.1 1 53.5	I 13.6 I 25.0	1 27.3	I 22.7 I 8.3	I 18.2	I 14.1 I
••	I	T	I	I		I	j
COLUMN Total	3 1•9			18 11.5		59 37•8	156 100.0
COUNT		STRONGLY	VAR19	TE	ST ** 26		* * * * ROH
COL PCT TOT PCT VAR14	I I 0.1		2.1	3.1	4.	AGREE .	
0.	I 1 50.0 I I 33.3 I	C 0 0 1 C 0 0 1			0.0	I 50.0 1 I 1.7 1 I 0.6 1	
AGREE 1.	I 66.7	2.0 1 75.0 1	83.3	18 1 12.2] 100.0 I 11.5 I	39.9	I 56 I I 37.8 I I 94.9 I	
DISAGRÉE 2.	I 0.0	1 16.7 I 1 25.0 I		0.0 1	0.6	2 1 33.3 1 3.4 1 1.3 1	•
COLUMN	3 1.9	4 2•6	12 7.7	18 11.5	60	59 37•8	156 _100•0

CHI SQUARE = 37.39689 WITH 10 DEGREES OF FREEDOM SIGNIFICANCE = 0.0000

	7.67	
VAR11 FART II	QUESTION 5 BY VAR	28 PART III QUESTICH 12
	• • • • • • • • • • • • • •	* * * * * * * * * * * * * * *
•		

			VA	12.28		•			•	TEST =	⁷ 37	
	-ROH CGL	UNT PCT PCT PCT	I I I	0		TRONGLY DISAGRE		2.	NEUTRAL	AGREE 4	STRONGLY AGREE I 5.	TOTAL
VAR11		0.	I I I	0.0 0.0	I I I	1 100.0 20.0	I 0.0 I 0.0 I 0.0		0 • 0 0 • 0 0 • 0	I 0.0 I 0.0 I 0.0	I 0.0 I 0.0 I 0.0	I 1 I 0.6 I
AGREE		1.	I I I I 1	3 2.3 .00.0	-I- I I I	3.0 30.0 2.6	I 12.0 I 12.0 I 88.9 I 10.3]	21 15.8 70.0 13.5	I 53 I 39.8 I 86.9 I 34.0	I 36 I 27.1 I 92.3 I 23.1	I 133 I 85.3 I
DISAGREE	Ξ	2.	I I I I	0.0 0.0 0.0	-I- I I	0 • 0 0 • 0 0 • 0	I 2 2 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2	. 1	9 40.9 30.0 5.8	I 8 I 36.4 I 13.1 I 5.1	I 3 I 13.6 I 7.7 I 1.9	I 22 I 14.1 I
	COL TO	TAL		3 1.9		3.2	11.5		30 19.2	61 39.1	. 39 .25•0	155 100.0

CHI SQUARE = 3.5 39.18322 WITH 10 DECREES OF FREEDOM SIGNIFICANCE = 0.0000

VARIJ FART IT QUESTION 4

VAR20

PART III QUESTION 4

CCUNT STRONGLY DISAGREE NEUTRAL AGREE STRONGLY ROW POT I ROW COL POT I DISAGRE AGREE 3.I 5. I VAR1S I I 3 I I 42.9 0.0 0.5 0-0 57.1 I 0.0 0.0 I 8.0 I 5.3 0.0 I 0.0 I I I I 0.0 0.0 0.0 2.6 1.9 C. 0 I 4 I 31 14 16 21.5 0.9 I 6.2 1 24.6 I 47.7 AGREE I 0.0 0.0 Ī 18.2 Ī 66.7 I 0.0 32.0 54.4 0.0 10.3 3 3 18 I 30 23 I 7 84 Ι I I 3.€ 21.4 3.6 35.7 8.3 DISAGRÉE I 27.4 I 40.4 I 100.0 I 100.0 60.0 **33.**3 Į 51.8 19.2 11.5 3 3 22 COLUMN 50 21 57 156 14.1 TOTAL 1.9 1.9 32.1 36.5 13.5 100.0 CHI SQUARE = 25.03784 HITH 10 DEGREES OF FREEDOM SIGNIFICANCE = 0.0053

THE SQUARE - 414 25103704 HITH ID DEGREES SP FREEDOM ___ SIGNIFICANCE - 012050

		VAR36			TE:	ST #	39 .	
Aco.	TOT PCT I	0.1	DISAGRĒ 1.1	CISAGREE 2.I	NEUTRAL 3.1	AGREE	STRONGLY AGREE I 5.1	
AR21 	0 • I I I	1 I 50.0 I 20.0 I	0 1 0 0 1 0 0 1	I 0.0 I	0 0 I 0 0 I 0 0 I	0.0	I 1 1 1 I 50.0 I 4.3 I I 0.6 I	1.
STPONGLY	-I 1. I DISAGRE I I	0 . 0 I 0 . 0 I 0 . 0 I	57.1] 33.8]	I 0.0 I	3 I 42.9 I	0 - 0 0 - 0 0 - 0	I 0.0 I I 0.0 I I 0.0 I	4.
DISAGREE	2. I		30.8	4 I 36.4 I 26.7 I 2.6 I	27.3 1	0.0	I 0.0 I I 0.0 I I 0.0 I	,
NEUTRAL	3. I I I	6.5 I 40.0 I	6.5] 15.4]	2.6 I	28.6 I 10.3 I	19.4 13.6 3.8	I 3.2 I I 4.3 I I 0.6 I	19.
AGREE	4. I I I	0.0 I 0.0 I	1 I 2.2 I 7.7 I 0.6 I	5 I 10.9 I 33.3 I	20 I 43.5 I	37.0 38.6	I 3 I I 6.5 I I 13.0 I I 1.9 I	
STRONGLY	I	3.4 I 40.0 I	15.4 1	3.4 I 13.3 I 1.3 I	23.7 I 25.0 I 9.0 I	35.6 47.7 13.5	I 78.3 I I 11.5 I	37.
	COLUMN TOTAL	5	13	15 9.6	56 35.9	28.2	23 14.7	15 100.

							· • • • • • • • • • • • • • • • • • • •	
	COUNT :			· ·		TEST		
<u>· </u>	ROW PCT : Cul PCT : Tot pct	I	STRONGLY DISAGRE 1.1				STRONGLY AGREE 5.1	TOT
R22		33.3	I 0.0 I I 0.0 I I 0.0 I	0.0	[]	0.0	I 0.0 I I 0.0 I	
DISAGREE			I 40.5 I	14.3 5.6	2 1 28.6 1 6.7 1	28.6	I 0 I I 0.0 I I 0.0 I	4
NEUTRAL		0.0	1 0.0 1	22.2	1 37.5 1 1 20.0 1		I 2 I I 12.5 I I 5.1 I	, = 0
AGREE				13.5 38.9	13 1 25.0 1 1 43.3 1 6.3 1	50.0 42.6	I 6 I I 11.5 I I 15.4 I	33
STRONGLY	AGREE	I 65.7	I 50.1 1	7.6 33.3	9 1 1 11.4 1 1 30.0 1	35.4 . 45.9	I 31 I I 39.2 I 79.5 I 19.9	50
		_	1 0.0 1	0.0 0.0 0.0	1 0.0 I	1 100.0 1.6	I 0.0 I I 0.0 I	
	COLUMN TOTAL	13 1.9	[] 5 3.2	18 11•5	[] 30 19•2	61	39 25.0	1 100

VAR24	FART 1	CII QUEST	10N 6	8Y \	* * * *	* * * * .	QUESTIGN	1 8 * * * *
112.50	COUNT I ROW POT I COL POT I	<u> </u>	STRONGLY DISAGRE I 1.I		NEUTRAL	EST # AGREE 4.	STRONGLY AGREE I 5.1	TOTAL
V#F24	0. 1	0.0	0 I 0 0 1 0 0 1	100.0 1 3.6 1	0.0 1 0.0 1	0.0	I 0.0 1	
STRONGLY	DISAGRE I	0.0	1 1 I 1 7.7 I 1 12.5 I	15.4] 7.1	3 1 23.1 1 6.7 1	30.8	3 1 23.1 1 21.4 1 1 1.9 1	
DISAGREE	2.	3.6 50.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.1 7.1	8 1 28.6 1 17.8 1	50.0 23.7	I 2 1 7.1 1 1 1 4.3 1 1 1.3	2
NEUTRAL		50.0	0 • 0 I	10.7	12 1 1 38.7 1 26.7 1	38.7 20.3	3 1 9.7 1 21.4 1 1.9	31 19.3
AGPES	4.	0 • 0 0 • 0	I 2 I I 3.7 I I 25.0 I I 1.3 I	20.4 39.3	15 15 1 27.5 1 33.3 1 9.5	42.6 39.0	I 3 1 5.6 1 21.4 1 1.9	54 [
STRONGLY	5. AGREE	0.0	1 13.6 I 1 50.0 I	31.0 32.1 5.8	7 1 24.1 1 15.6 1 4.5	20.7 10.2 3.8	I 3 1 1 1 0 • 3 1 1 2 1 • 4 1 1	
	COLUMN	2	8 5.1	28 17.9	45 28.8	59 37.8.	14 9•0	155 100.0

CFI SQUARE = 23-26075 WITH 25 CEGREES OF FREEDOM SIGNIFICANCE = 0.2532

-	COUNT	VAR30 I				TEST	#42	
	ROW POT	Ī	DISAGRE				STRONGLY AGREE 5.1	TOLL
AP24			[I 1		I	I I	
	0.	-	[0.0] [3.3]		0.0 0.0	I 0.0 :	I 0.0 I	G.
STRONGLY	1. DIS/JKE	I 0.0 I	46.2 1 54.5 1 3.8 1	I 7.7 I I 4.3 I I 6.6 I	35.5 11.9 3.2	1 0.0 1 0.0 1 0.0	I 7.7 I I 3.8 I I 0.6 I	
CISAGREE	2.	I 0.0 II 0.0 II	1 1 3.6 1 9.1	I 11 I I 39.3 I I 44.0 I I 7.1 I	10 35.7 23.8 6.4	I 4 I 14.3 I 7.8 I 2.6	I 7.1 I I 7.7 I I 1.3 I	2 17.
NEUTRAL	3.	I 0.0 I I 0.0 I	3.2 9.1 1 0.6	I 4 I I 12.9 I I 16.0 I I 2.6 I	10 32.3 23.3 6.4	I 14 I 45.2 I 27.5 I 9.0	[I I 2 I I 6.5 I I 7.7 I I 1.3 I	19.
AGREE	4.	I 0.0 I 0.0 I 0.0	2 [3.7 [19.2 [1.3	7 1 1 13.0 1 1 28.0 1 1 4.5 1	13 24.1 31.0 8.3	I 24 I 44.4 I 47.1 I 15.4	1 8 I 1 14.8 I 1 30.8 I I 5.1 I	34.
STRENGLY	AGREE	ī u	1 1 3.4 1 9.1 1 0.6	I 2 I I 6.9 I I 8.0 I	13.8 9.5 2.6	I 9 1 1 3 1 • 0 1 1 7 • 6 1 5 • 8	I 44.8 I I 50.0 I I 8.3 I	18.
	COLUMN TOTAL	1 0.6	11	11 25 16.0	42	51	[I 26 16.7	15

		VAR26			TEST	r # 4;	3	
VAR24	COUNT ROW PCT COL PCT TOT PCT	I I	DISAGRE				STRONGLY AGREE 5.1	ROW
	•		0 • 0	I 0.0 I I 0.0 I I 0.0 I	100.0	I 0.0 I 0.0 I 0.0	I 0.0 I I 0.0 I I 0.0 I	0.6
STPONGLY	1. DISAGRE	25.0	1 30 · 8 - 1 1 80 · 0	I 2 I I 15.4 I I 8.3 I I 1.3 I	15.4 6.7	I 3 I 23.1 I 4.5 I 1.9	I 1 I I I I I I I I I I I I I I I I I I	13 8 • 3
DISAGREE	2.		I 0 • C :	I 3 I I 10.7 I I 12.5 I	10.7	I 19 I 67.9 I 28.8 I 12.2	I 2 I I 7.1 I I 7.4 I I 1.3 I	17.
NEUTRAL		I C.O I	0.0	I 4 I I 12.9 I I 16.7 I I 2.6 I	38.7 40.0	12 I 38.7 I 18.2 I 7.7	I 3 I I 9.7 I I 11.1 I I 1.9 I	
AGREE	4.	I 2 1 3.7 I 50.0 I	I 0 • 0	1 12 I 1 22.2 I 1 50.0 I 1 7.7 I	16.7	26 I 48.1 I 39.4 I 16.7	I 5 I I 9.3 I I 18.5 I I 3.2 I	34.6
STRONGLY		- •	3.4	I 3 I I 10.3 I I 12.5 I I 1.9 I	10.3 1J.0	I 6 I 20.7 I 9.1 I 3.8	I 16 I I 55.2 I I 59.3 I I 10.3 I	18.6
	COLUMN	2.6	5	24 15•4	30	66 42.3	27 17.3	156 100.0

CHI SQUARE = 291.83161 WITH 25 DEGREES OF FREEDOM SIGNIFICANCE = 0.0000

VAR25 FA	RT III QU	ESTION 9	BY * * * *	V4R26	PART III Q	UESTION 1	0
ROW P COL P	CT I	STRON	AGRE	EE NEUTRAL		STRONGLY AGREE	TOTAL
TOT P VAR25	I 50. I 50. I 1 50.	2 I 0 I 0 0	0 I 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	I 25.0	I 1 I 25.0 I 1.5	II	. 4 . 2•6
STRONGLY DISAG	-	0 I 40.	0 I 12.5	I 12.5 I 3.3	I 25.0 I 3.0	I 0.0 I I 0.0 I I 0.0 I	5.1
DISAGREE	I 4. I 25. I 0.	0 I 20.	0 1 45.8 6 I 7.1	I 13.0 I 10.0 I 1.9	$\begin{array}{ccc} \mathbf{I} & -30 \cdot 4 \\ \mathbf{I} & -10 \cdot 6 \end{array}$	I 0.0 I I 0.0 I I 0.0 I	14.7
NEUTRAL	. I I 3. I 25. I 0.	0 I 20.	1 20.8 6 1 3.2	I 50.0 I 50.0 1 9.6	I 20.0 I 9.1 I 3.8	I 2 1 I 6.7 1 I 7.4 1 I 1.3 1	
AGREE	I 0. I 0. I 0.	0 I 20.	C I 16.7	<u> </u>	I 73.4	I 3 1 I 4.7 I I 11.1 I I 1.9 I	41.0
STRONGLY AGREE	I 0.	0 I 0	0 I 4.2 0 I 0.6	1 3.7 I 3.3	I 11.1	I 22] I 81.5] I 81.5] I 14.1] I	17.3
	₩. L:.÷ 2.	6 3,			66 42.3	27 17.3	156 100.0

CHI SQUARE = 200.19867 WITH 25 DEGREES OF FREEDOM SIGNIFICANCE = 0.0000

	COUNT	VAR29			TE	ST #45	•
	ROW PCT	ISTRONGLY I DISAGRE				STRONGLY AGREE 5.1	TOTAL
ARZ8	10: PG1	I 1.I Il		[]	[]	[]	
		I 0.0 I	0.0	I 33.3 : I 4.2 :	1 0.0 1 1 0.0 1	66.7] 6.1]	1 1.9
STRONGLY		1 50.0 I I 1.9 I	23.0 11.1 0.6	0 · 0 · 0 · 1 · 0 · 0 · 1 · 0 · 0 · 0	I 0.0 I O.0 I O.0 I O.0 I	1 20.0 1 1 20.0 1 1 2.0 1	5 1 3•2
DISAGREE	2.		5 27 • 8 55 • 6	33.3 1 25.0	5 I 27.8 I 7.4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18 11.5
NEUTRAL		-,	0 • 0	33.3 1 41.7	1 50.0 1 1 22.1 1 1 9.6 1	13.3 1 8.2 1	
AGREE		I 1 I I I I I I I I I I I I I I I I I I	1.6 11.1 0.6	I 29.2 I	I 36 I I 59.0 I I 52.9 I I 23.1	32.7 1 1 10.3	61 39.1
STRONGLY		I 0.0 I	22.2	I 0.0	12 1 30.8 1 17.6	64.1] 51.0]	1 39 1 25•0 1
	COLUMN	6 3.8	; g	I : 24	68	[] 49	156

CHI SQUARE = 113.93586 WITH ZO DEGREES OF FREEDOM SIGNIFICANCE = 0.0000

	COUNT I	VAR15				er en en en en en en en en en en en en en
	ROW PCT I COL PCT I			DISAGREE	ROW TOTAL	TEST # 46
VAR23		0.I I	1.I I	2.1	_	
	1. I DISAGRE I	0.0 I 0.0 I	50.0 I	3 I 50.0 I 9.1 I 1.9 I	3.8	•
DISAGREE	2. I	•	3 I 33.3 I 2.6 I 1.9 I		5.8	
NEUTRAL	3. 1 1 1	2 I 8.3 I 22.2 I 1.3 I	_ _	7 I 29.2 I 21.2 I 4.5 I	15.4	
AGREE	4. 1 1	7.4 I 55.6 I	55 I 80.9 I 48.2 I 35.3 I	8 I 11.8 I 24.2 I 5.1 I	68 43.6	
STRONGLY]	0.6 1	38 I 77.6 I 33.3 I 24.4 I	30.3 I 6.4 I	31.4	
	COLUMN TOTAL	9 5.8	114 73.1	33 21.2	156 100.0	

		VAR2			TES	57 华 47
	COUNT ROW PCT COL PCT TOT PCT	ISTAFF I	RESIDENT	FELLOH	INTERN	ROW TOTAL
R1		I 66.7 I 2.6		0.0	I 0.0 I 0.0	I I 3 I 1.9 %
1951 AFT	1.	I 1.3 I I 2 I 4.3 I 2.6	I 32 I 58.1	1 0.0 1 0.0 1 0.0	I 0.0 I 13 I 27.7 I 76.5	I I 47 I 30.1
1946-50	2.	I 43.1	I 20 I 39.2	0.0 I 5 I 9.8 I 62.5	I 8.3 I 4 I 7.8 I 23.5	I I 51 I 32.7
1941-45	3.	I 14.1 II 24	I 12.8	3.2 [I 2.6	I I I 29 I 18.6
	4.	I 31.6 I 15.4 II	I 3.6 I 1.3 I 0	37.5 1.9	I 0.0	I I I 16
1936-40		I 100.0 I 21.1 I 10.3	I 0.0 1	0.0 0.0 0.0	I 0.0	I 10.3 I I
1931-35	5.	I 4 I 100.0 I 5.3 I 2.6	I 0.0	I 0.0 I 0.0 I 0.0	I 0.0	I 4 I 2.6 I
1926-30	6.	I 6 I 100.0 I 7.9 I 3.8	· · · · · · · · · · · · · · · · · · ·	0 0 0 I 0 0 I	I 0.0	1 6 1 3 • 8 I
	CÔLUMN TOTAL	76 48.7	55 35•3	8 5.1	17 10.9	156 100•0

······································		VAR2			TEST	48_	
			RESIDENT	FELLOW	INTERN	ROW	
.	COL PCT TOT PCT	I I 1.]	2.1	3.1	4.I	TOTAL	
VAR5	0.	I I 1 1	II I O I	1 I	0 I	2	•
· · · · · · · · · · · · · · · · · · ·	and the amount to the	I 50.0 I	0.0 I	50.0 I 12.5 I	0.0 I	1.3	_
		I 3.6	C . 0 I	i.6 1	0.0 I		
YES	1.	I 72.5	I 11 I	3 1	0 I	51 32.7	
		I 48.7 I	7.1 I	37.5 1 1.9 1	0.0 I		. ••• • •
	2.	II I 38 1	43 I	4]	17 I	102	
NO		I 37.3 1 I 50.0 1	42.2 I 78.2 I	3.9 I 50.0 I	16.7 I	65.4	
	-	I 24.4]	27.6 I	2.6 I	10.9 I		
	3.	I 0.0	. 1 <u>1</u>	0 1	0 I	0.6	
•		I 0.0 I	1 • 6 I I 0 • 6 I	0.0 1	0.6 I		
•	COLUMN	76	[I 55	I	17	156	
	TOTAL	48.7	35.3	5.1 .	10.9	100.0	

CHI SQUARE = 32.41603 HITH 9 DEGREES OF FREEDOM SIGNIFICANCE = 0.0002

	COUNT	VAR2		TEST	-# <u>+</u> 9	
		ISTAFF	RESIDENT	FELLON	INTERN	ROH Total
	TOT PCT		I č.		I 4.	
IAR4		[I	T	T	. T
		-			Î O	
			I 0.3 :		I 0.0	I 0.6
		0.6			I 0.0	Î ,
	-		I:	T		-
0-3	_ ,				I 11	
U-3			I 64.3 I 65.5		1 19.6 1 64.7	
		5.8	I 23.1	0.0	I 7.1	Î
		[I	I	I	·I
4-6						I 29
4-6				I 13.8 I 50.0	I 15.3 I 17.6	I 18.6
	•			2.6	I 1.9	Ī
	-	[Ĭ	[I	Ī
7-9	3.		I 5]		I 2	I 24
7-9					I 3.3 I 11.8	I 15.4
,					I 1.3	Ī
		I	I	I	1	I
40-40			I 3 1			I 21 .
10-12			I 14.3 [I 4.8 I 5.9	I 13.5
					1 0.6	Î
	•	[I	[I	I
13-15					I 0 I	I 13 I 8.3
13-19		14.5			I 0.0	I o.s
		7.1	I 0.6		I 0.0	
	-	[I		I	Ī
16-18	6.	1 100.0	I 0.6	I 0.0	I 0.0	I 7 I 4.5
		9.2	1 0.0	0.0	I 0.0	I 4.9
A-179-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		4.5	I 8.6	0.0	I 0.0	Ī
	COLUMN -	76	[] 55		17	1 456
	TOTAL	48.7	35 • 3	°	10.9	156 100.0
CONTINUE					200	
	COUNT			1 _1_1_1		<u> </u>
	ROW POT I		RESIDENT	FELLOW	INTERN	ROW
	COL POT I	1.	I 2.I	3.	I 4.	TOTAL
AR4			I I			Î
	7. 1	5	I O I	0	1 0	I 5
EG 19		100.0	1 0.0 1	0.8	0.0	1 3.2
·-· -· ·-	<u></u>	6.6 3.2	I 0.0 I	- 1 1		I I
	- Î]	Ī.,
	COLUMN	76	55	8	17	156
	TOTAL	48.7	35.3	5.1	10.9	100.0

SOURT STANDERS OF STANDERS OF STANDERS OF STANDERS OF STANDERS OF STANDERS OF STANDERS OF STANDERS OF STANDERS

PART II QUESTION * * * * * * * * * * * * * * * * * * *	# ^{\$} .	⊢ ≠	# # # # # #			A * * * * * * * * * * * * * * * * * * *	* * * *	14: SPECIAL TEST 华	11.TV	*
ROW PCT IOB GYN FAM PRAC GOL PCT I 1.I 2.1	IOB GYN FAM PR I I 1.I	o :		PEDIATRE	MEDICINE 4.	SURGERY	INTERNS	PATH-RAD I 7.I	OTHERS 8.1	ROM
1 50.0 I 0.0 I I I I I I I I I I I I I I I		H H G G G G G G G G G G G G G G G G G G		000	0.0	II 50.0 II 33.7				1.22
1. I 12 I 18 I I 18 I I 18 I I 18 I I 18 I I 18 1 I 18 1 I I 18 I I I I	12 I 12. 1 I 12. 7 I 100. 7 I 11.	+ + + +		18 I 12.2 I 100.0 I 11.5 I	29 19.6 100.0 18.6	I 25 I 16.9 I 92.6 I 16.0	17 11.5 100.0	100.1 I I I I I I I I I I I I I I I I I I I	14 I 9.5 I 100.0 I	148 94.9
2. I 5 I 0 I I 83.3 I 0.0 I I 27.8 I 0.0 I I 3.2 I 0.0 I	I 83.3 I I 27.8 I I 3.2 I	1 0 0 0 1 1 1 0 0 0 1 1 1 1 1 1 1 1 1 1			000		0000			8 8
COLUMN 18 18 18 19 TOLAL 11.5 11.5 11.5 = 1.38.12813 WITH 14 DEGREE	18 11.5 14 DEGRE	18 11.5 14 DEGRE		18 11.5 S OF FRE	29 18.6 EDOM	27 17.3 SIGNIFICANCE	17 10.9 ICE = 0.000	15 15 9.6 1005	14 14 9.0	156 100.0

VA217	PART * * *	III QUESTION	TION 1 + + +		*	> * > * > * *	A 20 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	04: SPECIA	LTY + + +	*
		VAR3	i 1	7			-	₩ T23_	21	
	ROW POT	IOB GYN	FAM PRAC	PEDIATRE	MEDICINE	SURGERY	INTERNS	PATH-RAD	OTHERS	ROW
7 1017	TOT PCT	1 10	1.2.	3.	1	1 5.	I 6.	1.7.1	8	-
4	0	I 25.0 I 55.6	0000		I 25.0 I 3.4	402	I 25.0 I 25.0	000	999	2 * 0 * 0
STRONGLY	1. DISAGRE	388	• • • •		1 18	• 1 • •	• • • •			7.1
DISAGREE		1 12.5	I 16.7 I 22.2 I 22.2	= 4000	א ועשטוע	11 - 0 - 5 - 1 - 1 - 5 - 5 - 5 - 5 - 5 - 5 - 5		12.5	12.	15.4
NEUTRAL	, m			3000	1001	200		17.2 33.3 33.2	9 7 7	29
AGREE	•		1 12.7 1 50.0 1 5.8	14.1 55.6 6.4	10032	HM	16.77		12.	45.5
STRONGLY	S. Agree	111111111111111111111111111111111111111	1 23.5 1 22.2 1 22.2	1 16:7 1 16:7	35.3	H H 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0000		10.9
	COLUMN TOTAL	11.5	111.5	11.5	29	17.3	17 10.9	15 15 9 6		156 100•0

Perfection becomes. Assessed Assessed

63.68222 WITH, 35 DEGREES OF FREEDOM CHI SOUARE = F

SIGNIFICANCE = 0.0021

PRESENTAL FORESCES PROPERTY FORESCENT RESERVED BELEGISSA TERRESCES PROPERTY PRODUCE TOWN

VAR22	PART	III QUESTION	TIO	, , , , , , ,) # 8 # · ·	VAR3	1	Q41 SPE	CIALT	# * *	# #
• • • • • • • • • • • • • • • • • • •		VAR3			S. D.				• •	,	1	257	中的	ત્રે	• •
	ROW PCT	I IOB GYN I	T.	FAM PRAC		PEOTATRI	MEDICINE		SUPGERY	N	INTERNS	FATH-RAD		OTHERS	ROW
2000	TOT PCT		₩ •	2	H +	3.	p-4	1 · t	₽.	₩ Þ	6.1		7 • I	# · (2
VARCE	0	ė .	1 11	0		i	ì		ł	1	i	j	7 11	j	e 4
		I 0.0		o o	н н	0 0	0.0 0.0	–	00	нн	000	100.0	H H	000	9•0
	•	I 0.0	H .	0-0		•		-		H -	• (H H	• 1	
	5) 	,	1	; 	0		н н		- H		0	, , ,		~ 1
DISAGREE		I 28.6 I 11.1	-	00	- -	• •	0.0 I	- -	57.1 14.8	H H	[4.3] 5.9]		нн	00.0	*
	•	+	-			0.0	•	H	2.	—	0.6	· • (H		
	m	I 1	4 14	44	- H	7	I		٣		¦ .	_	1		. 16
NEUTRAL		1 6.3	H F	φ φ υ	⊷ +	6. 10. 11.	1 6,3	H F	18.7	⊢ ⊢	12.5	1 43.7	-	0.0	10.3
	į ·	I 0.6	- +	_	4 H F	9.0	1 0 0 E		1.1	' - H 1	0 M	t T	- 1-1	• •	
	' .±	1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		m	- - -	7	1 1 1 3	!	6		5			6 1	55
AGREE		1 15.4	-	5.8	⊢ ⊢	7.7	I 25.0		17.3	— +	9.6	7.7	H F	11.5	33.3
	ı	· • •	4 1-4 1					4 H	. r.		* * * * * * * * * * * * * * * * * * *	V	-	u m	
,	· •			•		-		1 11			6	I 3		6 60	~
STRONGLY	AGREE	1 8.9	⊢ ⊢	17.7	H -	16.5	1 19.0	⊢ ⊢	12.7	H +	11.4 1	ۍ د د	 -		50.6
		.	• 🛶 •	•	٠.	8		4 144 4	9		י אי	6.4		5.4	
	• • •	İ	 - !	0	<u>-</u>	0	1 T	- H	4			0	<u>.</u>		#
		I 0.0	H	0.0	H	0.0	1 0.0		100.0	—	0.0	0.0	H	0.0	9.0
		c	-	C .	-		¢	·		-	c	Ċ	-	_	
		I 0.0	4 pri	0.0	4			4 14	9 • 0	4 14 1	0.0		4 64 6	0 0	
	COLUMN		1	10	; ; -1	11.5	18.6) 	17.3	1	17	15 9.6	•	14	156 100.0
CHI SOUARE	# 15 63.	63.31781 WI	HITH	35 DEG	EGREES	10 1	FREECON	S	SIGNIFIGANCE	NCE	.0	7200			

		VAR3					_	£ 77.3°	83	
:	COL PCT	I IOB GYN I I 1.	FAH PRAC I 2.I	PEDIATRI	MEDICINE 4. I	SURGERY 5.I	INTERNS 6.I	0	OTHERS 8.I	ROW
VAR26	0	I 25.0 I 25.0	I 0 0 0 I	25.	50.0 I 50.0 I 6.9 I	H 0.0	1 0 0 0 I 0 0 I 0 0 I	I 0 0 0		7° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6°
STRONGLY	1. DISAGRE	1 0.6 1 80.0 1 22.2 1 2.55	0 0000	000	• • • • •	• • • •	• • • • •		20 0 I Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	W
DISAGREE	· N	1 20 5 1 27.8 1 27.8	1 12.5 I 1 16.7 I 1 16.9 I	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12.5 I 10.3 I	16.7 I 14.8 I 2.6 I	16.7 16.7 23.5 1	4.2 I 6.7 I 0.6 I I	12.5 I 21.4 I 1.9 II	24
NEUTRAL	b	1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1	3.3 5.6 0.6	10.0 I 10.3 I	26.7 I 29.6 I 5.1 I	10.0 17.6 17.6 1.9	30.0 I 60.0 3 I 10.0 I 21.4 I 1.9 I	30	
AGREE	;	I 10.6 I 38.9	I 15.2 I 15.2 I 55.6 I	12.1 I	15 I 22.7 I 51.7 I	12 1 18.2 I 44.4 I	6 1 9.1 I 35.3 I	3 I 4.5 I 20.0 I	7.6 I 35.7 I	66
STRONGLY	AGREE 5	4 ww	12.	5.1 25.9 38.9	9.6 22.2 20.7	~ m = =	3.8 14.6 14.6	1.9 H 7.5 H 7.4 H 1.9 H 1.5 H	3.2 I 3.2 I 7.4 I 14.3 I	2,7,
	COLUMN TOTAL	I 0.6 I	I 1.3 I II 18 11.5	1	# B	1.9 I 27 17.3	• • •	• 1 •	•	156
CHI SQUARE	~	.53623 HITH	H 35 DEGRE	EES OF FR	EEDOM	SIGNIFICAUCE	11	9000-		

TOTAL POTOTOTAL POTOTOTAL DISSISSIMAL POTOTOTAL ROTOTOTAL DOTOTOTAL BOSSIOSIA LIGISSISSI LOSSISSISSI LOSSISTOTA

*	* *	VAR3	* * * * * * * * * * * * * * * * * * * *	* * *	ۇر * *		* *	* *	• –	.:. Test	****·	•
-	— ← (- C) (-) -	OB GYN	FAM PR	PEDIAT	MEDICI	VE SURGERY		INTERNS	PATH	-eAD	OTHERS	TOTA
VAR31	TOT PCT	I I	I 2.	I 3.	4 T	•• I •• 1 • • • • • • • • • • • • • • • • •	5.I	6.	H -	7.I		
	•	•	H 0.0	•	•	0	00	•		22.	•	
		0 0 · · · · · · · · · · · · · · · · · ·	0 • 0 I	0.0 I 0.0	1 3.4 I 0.6	нн	H H +	0.0	H H 1	3.3 I	000	
STRONGLY	1. DISAGRE	1 33°3	# # P # #		l •		000		, , , , ,			.
		0 · 6	1 0 0 0	0 • 0 1	1 0 · 0	э о		0 · 0	- H I		0	ا سو ہـ
DISAGREE	8	I 20.0 I 16.7 I 16.7	1 20 0 3 1 1 1 1 6 7 9 1 1 1 1 9 9	I 6.7 I 5.6 I 5.6	1 13 2 1 13 3 1 1 1 1 1 3 3 1 1 1 1 3 3 3 1 1 1 1 1 3 3 3 1 1 1 1 1 1 3 3 3 1 1 1 1 1 1 1 3 3 1		- B - C - C - C - C - C - C - C - C - C	6.7 5.9 0.6		0.00	6.7	
NEUTRAL	ю.	I 7.4 I 11.1 I 1.3		I 3.7 I 5.6 I 0.6					11 33 1 60 1 5 5 1 5 5 5 1 5 5 5 5 5 5 5 5 5 5 5			2.4
AGREE		H 33.3	I 16.0 I 56.7 I 56.7	I 13.3 I 55.6 I 6.4	1 20.0 1 51.7 1 51.7			12 0 52 9 5 8	H H H 20 C H	1	9.3	11 48.
STRONGLY	AGREE	I 18.2 I 33.3	0 0 I				448		HHHH 6	100	1	1 2 3 1 2 1 • 3
	• •	3.8	I 0.0	3.8	3.8	2	• • ·	3.2	0	-	3.8	
	COLUMN	11.5	118	11.5	4	111	27 3		6	15.	740	1001

. !		VAR3	•									28	-	-12	52	4.5
	COL PCT	108 GYN I I	•	FAH PRAC	-	-	MEDICIN	•			•		PATH-RAD		ς «	ROW TOTAL
VAR33	0	H O O O H	1			•	50 0 3 4	i HHHHH			H 0 0 0	0 9 0	1075	- 000 - HH	0000	7 N M
STRONGLY	1. DISAGRE	1 45 5 1 2 2 2 8 1 3 2 2 1 3 2 2	HHHHH	9.00			1	•				1 80 4	2000	000	1	, , , , , , , , , , , , , , , , , , ,
OISAGREE	· · · · · · · · · · · · · · · · · · ·	I 20 0 I 167	Нинин	20.0 16.7 1.9		1 1 6.7 1 5.6 1 0.6 I 0.6 I	20.0 10.3 1.9		M040		I 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 000	0000	H H H H	4 4 M	9.6
NEUTRAL	n n	1 16.7 1 22.2 1 22.2	HHHHH	12.5		2 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	80 80 K		3 N 00 W		1 . 8 . 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4	0, 0, 4	1 2 2 2 2		4240	1 24 1 15.4 1 15.4
AGREE	• •		1 -	• • • • •	. i • i	• • • •		 	1 12 N M M	+5 	 0 d d d d	2	9700	H H H H H S 7 4 5 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5) ७ ५ न न	1 46.2 I 46.2 I
	ľ	I 0	i H	m	i H H	8 I	i	i	m		I 9			•	i	[32
STRONGLY	AGREE	H 0.0	ннн	9.4 16.7 1.9		25.0 I 44.4 I 5.1 I	25.0 27.6 5.1	ннн	100 100 100 100 100 100 100 100 100 100	4M 4M	8.7 I 5.3 I	m v o	4 ~ 9	11 21 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	440	I 20.5
	COLUMN		!	118	÷	18	18.		27.	11	17	6	5.0	I	1 7 0	156 100•0

Symptom statems symbols specific

VAR34 COU PCT I COL PCT I COL PCT I TOT PCT I TOT DI I 0.0 I I 0.0 I I 0.0 I I 0.0 I I 1.1 I I 1.1 I I 1.1 I I 1.1 I I 1.2 I I 22.2 I I 22.5 I I 22.5 I I 22.5 I I 22.5 I I 22.5 I I 22.5 I I 22.5 I I 22.5 I I 22.5 I I 22.5 I I 22.6 I I 23.7 I I 27.8 I I 33.7 I I 33.2 I I 33.3	FAM PRAC 7 20 H 1 2 2 2 1 H 1 4 5 5 H 1 H 1 4 5 5 H 1 H 1 4 5 5 H 1 H 1 4 5 5 H 1 H 1 H 1 H 1 H 1 H 1 H 1 H 1 H 1	PEDIATE 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100 I I I I I I I I I I I I I I I I I I	SURGERY 0.0 0.0 0.0 0.0 0.0 25.0 25.0	INTERNS IN THE TOTAL THE T	-RAD 	œ i	RON
AGREE 1 14.3 TRAL 3. I 8.9 TRAL 1 22.2 TRAL 1 22.2 TRAL 1 22.2 TRAL 1 22.2 TRAL 1 22.2 TRAL 1 22.2 TRAL 1 22.2 TRAL 1 22.6 TRAL 1 22.6 TRAL 1 22.6 TRAL 1 22.6 TRAL 1 22.6 TRAL 1 22.6	1 000 VO4 HMW	000 70 HM 94 M M M M M M M M M M M M M M M M M M	157 030 154 154 154 154 154 154 154 154 154 154	25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	H H H H H H H H H H H H H H H H H H H	50.0 6.7 0.6		2
ONGLY DISAGRE I 25.0 ONGLY DISAGRE I 25.0 I 11.1 I 1.3 AGREE I 25.0 I 14.3 I 22.2 I 22.2 I 22.2 I 22.2 I 22.5 I 23.5 I 23.5 I 23.5 I 23.5 I 23.5 I 24.5 I 25.5 I 25.5 I 27.5 I 27.	MWH HBA 000	000 000 000 000 000 000 000 000 000 00	157 032 157 032 157 035 157 03	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000 XX 0 7	50 6.7 0.6)	•
T 0.0 I 0.0 I 0.0 I 1.1 I 1.3 I 1.3 I 1.3 I 22.2 I 22.2 I 22.6 I 23.6 I 23.	22 PA 0000 BA 2000 BA	MF 6 6 MF 6 6 6 6 6 6 6 6 6 6 6 6 MF 6 6 6 6	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 20 20 20 20 20 20 20 20 20 20 20 20 2	200	0 0 0		•
T	334 PE 3 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	MF 6970 00	10 HU30 NH0W	, , , , , , , , , , , , , , , , , , ,	70 00 00 00 00 00 00 00 00 00 00 00 00 0	9 0 0	•	.
Y DISAGRE I 25.0 I 11.1 I 1.3 I 22.2 I 22.2 I 22.6 I 22.6 I 22.6 I 22.6 I 22.6 I 22.6 I 22.6 I 22.6 I 22.6 I 23.2	I POHI HEEL	450 000 H	4020 N400	00 70 70 70 70 70 70	1000 1000 1000 1000 1000 1000 1000 100	0.0	90	
T DISAGRE I 25.0 I 11.1 I 1.3 I 22.2 I 22.2 I 22.2 I 22.5 I 22.6 I 22.6 I 22.6 I 22.6 I 22.6 I 22.7 I 22.6 I 22.7	LB41 4881	31	₩40 W40W	0000	12.0 0 0 0 0 0 0 0 0 0 0	0.0	1 H 0	
3. I 14.3 3. I 122.2 I 22.2 I 22.2 I 22.2 I 22.6 I 22.6 I 22.6 I 22.6 I 22.6 I 22.6	Pal abbl	44 4.6 4.6 4.6	3 0 H O W	25.5	20 62	•	•	5.
3. 1 1 2 2 2 2 4 1 1 2 2 2 2 2 1 1 2 2 2 2	I HMMI	3.46	040m	25.	7 - 1	 	0.0	
3. II 22.22 II 22.52 II 22.52 II 22.52 II 22.52 II 22.55 II 23.55	HMM!	3.4		25.	4 4 4 4 4	í	II	^
3. II 22.2 II 22.6 II 23.2 II 24.8 II 24.8	m m I	3.3	σ. w.	25.	4 1 2 8	0	9.	17.
3. I 22.2 I 22.2 I 22.2 I 22.6 I 27.6 I 27.6	3.8 I	•	۰	÷ ;	0 • 1 1	0.0		
3. TI 28.9 TI 22.2 TI 22.6 TI 27.8		80			1.3	0.0	9	
1 22.2 1 22.2 1 22.6 1 2.6 1 27.0 1 3.2	9				.	10) 	3
1 22.2 1 22.6 1 22.6 1 27.8	13.3 I	8.9	15.6 I	**	6.6	25. 2	6.8	28.
4 H H H H H H H H H H H H H H H H H H H	33.5 7.8 T	2.25	r • 1	2 %	23.5	7 · 00 6 · 4		
11 1 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	· I	• i		1				
H H H H H H H H H H H H H H H H H H H	M	_	17	7	_	•	~	5
3.	2.7		ص • • د	20.	11.9	9 .00	ۍ د •	37.
•• [• • • • • • • • [•	1 6 ° 1	2.6	10.91 10.9	* ~	4.5	I 2.6 I	\$ 	
	.]	I	I	f 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		:	
5. 1 3			+4		٣	0		4
1 21.4		4 (┯.	۴,	21.4	0 • 0	۳.	•
I 16.7 I I 1.9 I	0.0 H H	16.7 I 1.9 I	3.4 I 0.6 I	4 P.	7.6 1.9	I 0.0 I	14.3	
1 8 -	. [1 8		•	17			
11.	11.5	11.5	13.6	17.3	10.9	9.6	0 • 6	100.

VAR35	PART	III QUESTION	TION 19	* * *	* *)	£ 133 + + +	04: SPECIA	1LTY	•
		VAR3					1-8	はしい	51	
	ROE POT	IOB GYN	FAM PRA	C PEDIATRI	MEDICINE	SURGERY	INTERNS	PATH-PAD	OTHERS	ROW
	TOT PCT	+	.T.	3	I 4 1	5.	1 6.	I • 7	60	· ·
n 2 4	0	0		- H	2 2	2 5	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0	
	_	000		I 5.6 II	1 6.9 I	0.67 1.4.4 1.4.4	1 11.0 1 11.0	1 6.7 I 1 6.7 I 1 0.6 I		4
	• 6	ļ.,,					1		100	•
S KONGE S	UISAGKE	1 38.9 I 4.5	1 5.6 1 0.6		1 10.3 I	7.7 7.4 1.3	H H G G G G	1 13.3 II		•
	2.	7 I	- I I -	-II- I 3 I		•	II		7	~
DISAGREE		•	•	10.	٠ ي	₩,	10	9.	25.0	17.9
		2.5 1 2.6	1 2.6 1 2.6	1 1.9 I		e m		1 9.0 I	7 • • •	.
,	 100 10		! !	4		 	#1	9	8	
NEUTRAL		I 11.1 I 22.2	I 13.9	2° c	00	4 % 0 %		I 16.7 I	8.3	23.
	•	2	. 60	9	5.8		0 .6	8 . 8	1.9	، ب
	• •	1 S	! !	10	11	i 1 1	~	5	 	ı
AGREE		3.	2,5		.	1 8.	13.0	0 °0 0 °0	7.4	34.
			M	9.6	7-1	9	4 .	3.2	5.6	
	(9	•				•		! ! !	
!		1		8	3		6	0	0	
STRONGLY	AGREE	1 7.1	1 21.4	21.4	21.4	<u>,</u> ,	21.4	00	0 0	φ.
	1	. O .	•	1.9	7 · ·	1 0 · 6	6.1			
	COLUMN		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	18	200	27	17	15	44 0	156
	ير - - - - ج ^ر	•	•	•	• C·	•	•		•	•
CHI SQUARE	. 11	57.091Ct WITH	35 88	SREES OF FR	REEDON S	SIGHTFICA	ANCE = 0.	0106		

APPENDIX E

SURVEY DISTRIBUTION AND RESPONSE BY SPECIALTY

SPECIALTY	STA Distr/		%		DENTS /Rtned	%
OB-GYN	6	8	100%+	17	10	59%
Family Practice	10	8	80%	17	10	59%
Pediatrics	17	11	65%	16	7	44%
Medicine	33	20	61%	24	9	37%
Surgery	20	17	85%	26	10	38%
Pathology	5	3	60%	8	6	75%
Radiology	8	6	7 5%	NA.	NA	
Anesthesia	3	3	100%	NA	NA	
Psychiatry	7	5	71%	NA	NA	
Emergency Medicine	10	0	0	9	3	33%
Preventive Medicine	2	2	100%	NA	NA	
General Practice	1	1	100%	NA	NA	
TOTALS	122	84	69%	117	55	47%
Interns	43	17	40%			

APPENDIX F

PHYSICIAN COMMENTS

SONT KONSON TOOKKON DOKKOON HOOKOON KUUNIN TUUNIN DIKOONI TOOKOON TOOKOONI DIKOKOONI TOOKOON TUUNIN TUUNIN TUUNIN

PHYSICIAN COMMENTS

- --- The nursing education is the same for all programs -- only emphasis shifts.
- --- Clinical experience and common sense lead to good clinical judgment, not a degree.
- --- Diploma nurses are as good, if not sometimes better, at being nurses as Baccalaureate Degree nurses are.
- --- My experience with nurses in the Army can be summed up in one sentence: "Weakest link in patient care."
- --- All nurses should be professional and administrative training is very difficult to teach.
- --- These questions would be interesting to discuss in a workshop or small group setting.
- --- I am appalled at the adoption of "educationalese" and "bureaucratese" by the nursing profession.
- --- Elevating the Chief Nurse to an Associate Administrator level is "empire building."
- --- What happened to Mother and apple pie?
- --- There is not a lot of "rank consciousness" here except for nurses in administrative positions.
- --- The quality of medical or nursing care is the reflection of the quality of the person delivering that care, and not the schooling classes attended.
- --- I consider nurses neither as handmaidens nor colleagues.
- --- Dogs are better pets than nurses.

- --- A nurse may question my orders if she is polite and discreet.
- --- Nurses should concentrate on being nurses.....

- --- Education alone does not, in and of itself, provide or guarantee competent clinical assessment.
- --- RNs are paperwork oriented, and do not do patient care.
- --- The theory trained nurses are not practical.
- --- Nurses may question physicians if the question is properly directed to the physician and not to her colleagues.

SELECTED BIBLIOGRAPHY

Books

こうからないのが、これないのでは、これののないのでは、これはないないのでは、これないないないできない。

- American Nurses Association. <u>Facts About Nursing 76-77</u>. Kansas City, Mo.: American Nurses Assn, 1977.
- Bliss, Ann A. and Cohen, Eva D. <u>The New Health Professionals</u>. Germantown, MD.: Aspen Systems Corporation, 1977.

SSSSSSSS XXXXXXXX

PRINCESSES RESERVED RESERVED RESPONSES TRANSPORTED

- California Post-Secondary Education Commission. A Health Sciences
 Education Plan for California: 1979-1980. (California: California Post-Secondary Education Commission, 1979).
- Dryden, M. Virginia. <u>Nursing Trends</u>. Dubuque, Iowa: Wm. C. Brown Company, 1968.
- Griffin, Gerald Joseph, and Griffin, Joanne King. <u>History and Trends</u> of Professional Nursing. St. Louis, Mo.: The C. V. Mosby Company, 1973.
- Larsen, Richard J. <u>Statistics for the Allied Health Sciences</u>. Columbus, Ohio: Charles E. Merrill Publishing Co., 1975.
- Peterson, Grace G. Working With Others For Patient Care. Dubuque, Iowa: Wm. C. Brown, Company, 1973.

Periodicals

- American Hospital Association. "Nursing Commission Opens Hearings in Chicago!" Hospital Week, Vol. 17, No. 8 (Feb 27, 1981) p. 1.
- American Hospital Association. "Nursing Shortage Recommendations Aired at Six Public Hearings." Hospital Week, Vol. 17, No. 10 (March 13, 1981) p. 2.
- Applebaum, Steven H. "A Profile of Leadership and Motivation Within a Closed Hospital Climate." Health Care Management Review, Vol. IV, No. 1 (Winter 1978) pp. 77-85.
- Aravjo, Marianne. "Creative Nursing Administration Sets Climate for Retention." Hospitals, Vol. 54, No. 5 (May 1, 1980), pp. 72-76.

- Bennett, Addison C. "Management Must Meet Nurses' Changing Needs." Modern Health Care, Vol X, No. 6 (June, 1980), pp. 90-94.
- Brody, E. W. "Are Nurses' Objectives Achievable -- At What Costs, and Who Will Pay?" Modern Health Care, Vol. X, No. 10 (October 1980), pp. 116-117.
- "Doctors, Nurses Must Discuss Differences, Work Together" Hospitals, Vol. 52, No. 24 (Dec 16, 1978), pp. 17-18.
- Donovan, Lynn. "The Shortage" RN, Vol 43, No. 6, (June, 1980), pp. 21-27.
- Fralic, Maryann F. "Nursing Shortage: Coping Today and Planning for Tomorrow." Hospitals, Vol. LIV, No. 5 (May 1, 1980), pp. 65-67.
- "Growing Role of Allied Personnel Raises Doubts Among Physicians." U.S. Medicine, Vol. XVI, No. 22 (Nov 15, 1980), pp. 26-28.
- Hurka, Slavek J. "Need Satisfaction Among Health Care Managers."

 Hospital and Health Services Administration, Vol. XIV, No. 4
 (Summer 1980), pp. 43-54.

- Jones, L. Y. "Physician-Nurse Interaction: Conflict, Compromise or Cooperation?" <u>Group Practice</u>, Vol. 29, No. 5 (May 1980), pp. 9-11.
- Knopf, Linda. "Nurse Career -- Pattern Study -- Baccalaureate Nurses Ten Years After Graduation." <u>Hospital Topics</u>, Vol. 57, No. 3 (May/June, 1979), pp. 5-9.
- LaViolette, Suzanne. "Agencies Experiment With Contracts." Modern Health Care, Vol. XI, No. 4 (April 1981), p. 40.
- LaViolette, Suzanne. "Shortage Spurs Flurry of Flextime Experiments." Modern Health Care, Vol. XI, No. 3 (March, 1981), pp. 42-45.
- LaViolette, Suzanne. "What Does it Take to Stem Turnover, Flight From Field?" Modern Health Care, Vol. X, No. 5 (May, 1980), pp. 31-32.
- Loffreda, Robert. "Employee Attitude Surveys: A Valuable Motivating Tool." The Personnel Administrator, Vol. XXI, No. 7 (July 1979), pp.43-49.
- McGuire, Mary Anne. "Nurse-Physician Interactions: Silence Isn't Golden." Supervisor Nurse, Vol. XI, No. 3 (March, 1980), pp.37-8.

- Moore, Joan F. "Nursing Shortage: A Question of Numbers or of Management?" Hospital Forum, Vol. IX, No. 6 (June, 1979), pp. 15-17.
- Morris, Diane. "Community Nursing. The Doctor/Nurse Paradox: Serious People in a Comedy Situation." Nursing Mirror, Vol. 147, No. 19 (Nov 9, 1978), p. 43.
- Moses, Evelyn and Roth, Aleda. "What Do Statistics Reveal About the Nation's Nurses?" American Journal of Nursing, Vol. 79, No. 10 (October, 1979), pp. 1745-1756.
- Nichols, Glennadee A. "Job Satisfaction and Nurses' Intentions to Remain With or Leave an Organization." <u>Nursing Reserach</u>, Vol. XX, No. 3, (May-June 1971), pp. 218-228.
- Nielsen, Brent. "Agencies Fill a Need But Are Not the Answer." Hospitals, Vol. LV, No. 4 (March 16, 1981), pp. 66-69.
- Norby, Ronald B. "Issues in Nursing." <u>Trustee</u>, Vol. XXVI, No. 9 (September 1980), pp. 37-42.
- "Nurse Registries: Part of the Problem, or Part of the Solution?" Hospitals, Vol. LV, No. 6 (March 16, 1981), p. 65.
- Seybolt, John W. and Walker, Duane D. "Attitude Survey Proves to be a Powerful Tool for Reversing Turnover." Hospitals, Vol. 54, No. 5 (May 1, 1980), pp. 77-80.

- Slavitt, Dinah, et al., "Measuring Nurses' Job Satisfaction." Hospital and Health Services Administration, Vol. XIII, No. 3 (Summer 1979), pp. 62-76.
- Slavitt, Dinah B. "Nurses' Satisfaction With Their Work Situation."
 Nursing Reserach, Vol. XXVII, No. 2 (March/April 1978), pp. 310-314.
- Stamps, Paula L., "Measurement of Work Satisfaction Among Health Professionals." Medical Care, Vol. XVI, No. 4 (April 1978), pp. 337-349.
- Swartz, Rebecca Shaw. "Behavioral Science Research in Hospital Food Service." <u>Journal of the American Dietetic Association</u>. Vol. 63, No. 8 (August, 1978), pp. 120-126.
- "The Nurse Shortage: There's A Long Road Ahead." Hospitals, Vol. LIV, No. 5 (May 1, 1980), pp. 63-64.

- Trinosky, P. "Nurse-Doctor Dissension Still Thrives." <u>Supervisor Nurse</u>, Vol. X, No. 4 (April, 1979), pp.40-3.
- Ulsafer-Van Lanen, Jane. "Lateral Promotion Keeps Skilled Nurses in Direct Patient Care." Hospitals, Vol. LV, No. 5 (March 1, 1981), pp. 87-90.
- Weaver, Charles N. "What Hospital Employees Value Most." Hospital Progress, Vol. 61, No. 1 (January, 1979), pp. 60-63.
- Weinberger, Martin, et al. "Changing House Staff Attitudes Toward Nurse Practitioners During Their Residency Training." American Journal of Public Health, Vol. 70, No. 11 (November, 1980), pp. 1204-6.
- White, Charles H. "Where Have All The Nurses Gone -- And Why?" Hospitals, Vol. LIV, No. 5 (May 1, 1980), pp. 68-71.
- White, Harold C. "Leadership: Some Behaviors and Attitudes of Hospital Employees." Hospital Progress, Vol. 61, No. 10 (October 1979), pp. 46-50.
- Wright, Margaret L. "A Revival of Attitudes." Supervisor Nurse, Vol. XII, No. 11 (November 1979), pp. 67-68.

Other Sources

- American Nurses Association. The Congress for Nursing Practice. <u>Standards</u> of Nursing Practice. Kansas City, Missouri, 1973.
- Council of Baccalaureate and Higher Degree Programs, Report of the Council, Entry Into Professional Nursing Practice (New York: National League for Nursing, Fall, 1979).
- Editorial, The Washington Post, March 2, 1980.
- National League for Nurses. Report of the NLN Task Force. Working Paper on Competencies of Graduates of Nursing Programs. New York: National League for Nurses, 1979.
- National League for Nurses. Board of Review. Memo to Members of the Council of Baccalaureate and Higher Degrees. New York: National League for Nurses, 1979.
- United States Army Health Services Command, HSC Pamphlet 40-1. Committees, Boards and Functions. Fort Sam Houston, Texas, Jan 1979.

DATE FILMED 7 - 88 110